



## Fall Quarter 2016 Class Schedule

Updated: 09/22/16

### ACCOUNTING

#### **ACCT&201 PRINCIPLES OF ACCOUNTING I**

Covers fundamentals of accounting theory and practice, including a study of the accounting cycle, and the use of special journals. Focus is on double entry accounting system and financial statement preparation. Covers transactions for a business organized as a sole proprietorship and their effects on balance sheet accounts.

Prerequisite: ACTG 115 or Instructor approval.

49F2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Dorum, Lucy [ONLINE]

#### **ACCT&202 PRINCIPLES OF ACCOUNTING II**

Covers fundamentals of accounting theory and practice continued from ACCT& 201. Focus is on issues related to businesses organized as a partnership or corporation and their effects on balance sheet accounts. Also covers investment, dissolution, and distribution of income. Prerequisite: ACCT& 201.

49G2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Cooke, Suzann  
[ONLINE]

4932 5 Cr 11:00AM-11:50AM TWThF 09/27/16-12/14/16 11 144Cooke, Suzann [HYBRID]

#### **ACCT&203 PRINCIPLES OF ACCOUNTING III**

Introduces the theory of cost accounting and an analysis of accounting data as a part of the managerial process of planning, decision-making, and control. Emphasis is given to job order, process and standard cost accounting data, and the preparation and use of budgets and internal control reports necessary for making economic decisions for manufacturing businesses. Prerequisite: ACCT& 201

49H2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Dorum, Lucy [ONLINE]

#### **ACTG 110 BOOKKEEPING I**

Introduces fundamental principles of full cycle, double-entry accounting, including maintaining journals, ledgers, and banking records to prepare basic financial statements for service and retail businesses organized as sole proprietorships or partnerships. Covers basics of payroll accounting and payroll tax reports. Explores the concepts and terminology required to perform specific accounting functions accurately. Prerequisite: COMPASS score equivalent to completion of MAT 82 and ENG 82 or higher, or Instructor approval.

49A2 4 Cr ARRANGED 09/26/16-11/06/16 ON LINE Dorum, Lucy [ONLINE]

4902 4 Cr 9:00AM-10:50AM TWThF 09/27/16-11/06/16 11 144Dorum, Lucy [HYBRID]

**ACTG 115 BOOKKEEPING II**

Introduces continued principles of full cycle, double-entry accounting. Covers specialty issues such as uncollectible accounts, depreciation, inventory, notes, interest, accruals, and end-of-period work for corporations. Explores concepts and terminology required to perform specific accounting functions accurately. Prerequisite: ACTG 110

4912 4 Cr 9:00AM-10:50AM TWThF 11/08/16-12/14/16 11 144Dorum, Lucy [HYBRID]  
 49B2 4 Cr ARRANGED 11/08/16-12/14/16 ON LINE Dorum, Lucy [ONLINE]

**ACTG 120 ELECTRONIC BUSINESS MATH**

Covers business math applications to include payroll, percent's, merchandising, consumer credit, simple and compound interest, prorating, stocks and bonds, and the metric system, using the keyboard functions and the touch method of electronic calculator operation. Prerequisite: COMPASS score equivalent to completion of MAT 82 and ENG 82 or higher, or Instructor approval.

49C2 2 Cr ARRANGED 09/26/16-12/14/16 ON LINE Dorum, Lucy [ONLINE]

**ACTG 135 ACCOUNTING SPREADSHEETS I**

Introduces electronic spread sheets (Microsoft Office-Excel). Covers creating business forms and spreadsheets to prepare financial statements. Prerequisite: CAS 105, CAS 120 or Instructor approval. Concurrent with ACTG 110 or Instructor approval.

4922 5 Cr 11:00AM-11:50AM TW F 09/27/16-12/14/16 11 127Dorum, Lucy [ENHANCED]

**ACTG 160 PAYROLL & BUSINESS TAXES**

Provides practice in all payroll operations, the recording of accounting entries involving payroll, and the preparation of payroll and business tax returns that are required of business. Covers the concepts, laws, and terminology required to perform specific payroll accounting functions. Prerequisite: ACTG 110 or Instructor approval.

49D2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Dorum, Lucy [ONLINE]

**ACTG 211 PRINCIPLES OF ACCOUNTING I LAB**

Provides instructional activities that support material covered in ACCT& 201 in a supervised lab environment. Concurrent with: ACCT& 201 or Instructor approval.

49J2 2 Cr ARRANGED 09/26/16-12/14/16 ON LINE Dorum, Lucy [ONLINE]

**ACTG 212 PRINCIPLES OF ACCOUNTING II LAB**

Provides instructional activities that support material covered in ACCT& 202 in a supervised lab environment. Concurrent with: ACCT& 202. Prerequisite: ACTG 211 or instructor approval.

4942 3 Cr 12:00PM-12:50PM W 09/28/16-12/07/16 11 144Cooke, Suzann

**ACTG 213 PRINCIPLES OF ACCOUNTING III LAB**

Provides instructional activities that support material covered in ACCT& 203 in a supervised lab environment. Concurrent with: ACCT& 203 Prerequisite: ACTG 211 or instructor approval.

49K2 3 Cr ARRANGED 09/26/16-12/14/16 ON LINE Dorum, Lucy [ONLINE]

**ACTG 224 FUNDAMENTALS OF FUND/GOVERNMENTAL ACCOUNTING**

Introduces the fundamentals of accounting theory and practice of governmental/nonprofit accounting, including a study of the accounting methods, the reasons for and the use of the various funds, the purpose and use of budgets in this field of accounting, and the differences between GAAP, GASB Standards, and fund/governmental accounting. Prerequisite: ACTG 115 and ACCT& 201 or Instructor approval.

49L2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Cooke, Suzann

**ACTG 260 BUSINESS OFFICE I**

Provides an opportunity for students to experience and participate in a realistic office environment by providing financial statements, completing financial examinations, preparing payroll, and furnishing other similar financial accounting work products to the public. Prerequisites: ACTG 143, ACTG 235, CAS 120, and ACCT& 201, or Instructor approval.

4952 5 Cr 12:00PM-2:00PM TWThF 10/04/16-12/09/16 11 127Cooke, Suzann [ENHANCED]

**ACTG 262 BUSINESS OFFICE II**

Provides an opportunity for students to experience and participate in a realistic office environment by providing financial statements, completing financial examinations, preparing payroll, and furnishing other similar financial accounting work products to the public. Prerequisite: ACCTG 260

Instructor permission required.

4962 5 Cr 12:00PM-2:00PM 10/04/16-12/09/16 11 127Cooke, Suzann [ENHANCED]

**ACTG 271 INTERNSHIP I**

Provides students with on-the-job practical field experience. Program offers students a way to combine classroom study with related work experience under the supervision of an employer. Work experience must be related to the educational and career objective of the student. Must be approved by the Instructor and includes a weekly seminar component. Prerequisite: Instructor approval.

4972 5 Cr 12:00PM-2:00PM TWThF 10/04/16-12/09/16 11 144Cooke, Suzann

**ACTG 291 INDIVIDUAL INCOME TAX ACCOUNTING**

Continues the study of the fundamentals of individual income tax accounting theory and practice, including a detailed study of the rules and regulations for preparation of the most common forms and schedules, preparation of these forms and schedules, tax laws in the United States, and the differences between GA AP and income tax accounting. Prerequisite: ACTG 222 and ACCT& 201, or Instructor approval. Concurrent with ACTG 293.

49N2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Cooke, Suzann [ONLINE]

4982 5 Cr 9:00AM-10:30AM TWThF 09/27/16-12/14/16 11 127Cooke, Suzann [HYBRID]

**ACTG 293 INDIVIDUAL INCOME TAX ACCOUNTING LAB**

Provides a supervised setting, with instructional support, to apply understanding of federal individual income tax rules and regulations to specific tax problems. Prerequisite: ACTG 222 and ACCT& 201, or Instructor approval. Concurrent with ACTG 291.

4992 5 Cr 10:30AM-10:50AM TWThF 09/26/16-12/09/16 11 127Cooke, Suzann [HYBRID]

49P2 5 Cr ARRANGED 09/26/16-12/09/16 ON LINE Cooke, Suzann [ONLINE]

**BUS& 201 BUSINESS LAW**

Introduces the Uniform Commercial Code and Business Laws pertaining to business contracts, sales, bailments, commercial paper, employment, agency, business organization, insurance and property. Prerequisite: ACTG 115 or instructor approval.

49M2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Cooke, Suzann [ONLINE]

**AEROSPACE COMPOSITE****ACM 105 BASIC MATHEMATICS; BASIC PHYSICS; WEIGHT & BALAN**

Perform all of the mathematical computations required in the Advanced Manufacturing curriculum. Understand the scientific principles that apply to the operation of aircraft, engines and the equipment that Advanced Composite Manufacturers will be in daily contact with. Students will develop a comprehensive understanding of the importance of weight and balance to aircraft safety, and make all of the required calculations for weight and balance checks, equipment changes, extreme loading checks and the addition of ballast.

Additional Fee: \$50.00

0902	5 Cr	4:00PM-8:15PM	MTWTh	09/26/16-12/16/16	SHC115	Mensonides, J
0932	5 Cr	5:00PM-7:00PM	T	09/26/16-12/16/16	SHC107	Perse, Britta [HYBRID]

**ACM 110 BLUEPRINTS, DRAWINGS, AND PRECISION MEASURING**

Determine and identify dimensions of a part from drawings, including orthographic and isometric projections. Sketch objects/parts in either orthographic or isometric views.

Additional Fee: \$50.00

0912	4 Cr	4:00PM-8:15PM	MTWTh	09/26/16-12/16/16	SHC115	Mensonides, J
0942	4 Cr	5:00PM-7:00PM	T	09/26/16-12/16/16	SHC107	Perse, Britta [HYBRID]

**ACM 115 MATERIALS AND PROCESSES/LAB & EQUIPMENT SAFETY**

Students will identify and determine the proper use of fasteners, demonstrate a basic understanding of aircraft hardware identification and terminology, learn about lab safety and the proper use of tools, calculate/apply torque values, and perform precision measurements.

Additional Fee: \$50.00

0922	5 Cr	4:00PM-8:15PM	MTWTh	09/26/16-12/16/16	SHC115	Mensonides, J
0952	5 Cr	5:00PM-7:00PM	T	09/26/16-12/16/16	SHC107	Perse, Britta [HYBRID]

**ACM 120 COMPOSITE FABRICATION**

Learn manufacturing methods and processes commonly utilized for the fabrication of composite materials. Instruction includes material choices, fabrication techniques, material handling, and safety procedures.

Additional Fee: \$50.00

0962	4 Cr	11:30AM-3:45PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki
09A2	4 Cr	4:00PM-8:15PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki

**ACM 125 COMPOSITE ASSEMBLY**

Identify and utilize appropriate materials and processes to assemble structures made of composite materials. Includes the lay-up, vacuum bagging, and cure processing of wet laminating techniques and preimpregnated materials.

Additional Fee: \$50.00

0972	4 Cr	11:30AM-3:45PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki
09B2	4 Cr	4:00PM-8:15PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki

**ACM 130 COMPOSITE REPAIR**

Inspect, test, and repair composite structures. This course explains how imperfections affect composite properties and provides hands-on training for the repair of defects.

Additional Fee: \$50.00

0982	4 Cr	11:30AM-3:45PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki
09C2	4 Cr	4:00PM-8:15PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki

**ACM 145 SPECIAL PROJECTS**

Develops skills in print reading, project planning, layout, distortion control, fixturing, and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or as assigned.

Additional Fee: \$50.00

0992	3 Cr	11:30AM-3:45PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki
09D2	3 Cr	4:00PM-8:15PM	DAILY	09/26/16-12/16/16	SHC119	Conway, Jacki

## **AMERICAN SIGN LANGUAGE**

### **ASL& 121 AMERICAN SIGN LANGUAGE I**

Informs students about deafness, deaf culture, the deaf community, and American Sign Language. Learn to communicate both expressively and receptively in American Sign Language in basic conversation situations. Prerequisite: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

0502	5 Cr	4:30PM-7:00PM	MW	09/26/16-12/16/16	17 240	Wilson, Jaime [HYBRID]
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### **ASL& 122 AMERICAN SIGN LANGUAGE II**

Learn to communicate both expressively and receptively in American Sign Language in basic conversation situations. Prerequisite: ASL& 121.

<del>0503</del>	<del>5 Cr</del>	<del>2:00PM-4:30PM</del>	<del>MW</del>	<del>09/26/16-12/16/16</del>	<del>17 240</del>	<del>Wilson, Jaime [HYBRID]</del>
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## **ARCHITECTURAL ENGINEERING DESIGN**

### **ARC 121 DRAFTING & DESIGN**

Overview of floor plans, line types, and line weights, introduction to media, computer-aided drafting, codes, basic design concepts, and presentation drawings and techniques. Lab hours arranged. Prerequisites: English reading with comprehension, composition, and basic verbal skills.

Additional Fee: \$51.50

6302	5 Cr	1:00PM-1:50PM	M	09/26/16-12/12/16	19 203	Bushnell, Pop [ENHANCED]
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### **ARC 125 RESIDENTIAL DESIGN & DRAFTING**

Overview of basic residential design and specialized floor plans, exterior and interior elevations. Lab hours arranged. Prerequisites: ARC 123

Additional Fee: \$51.50

6322	5 Cr	10:00AM-10:50AM	T	09/27/16-12/13/16	19 203	Bushnell, Pop
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### **ARC 142 ARCHITECTURAL REPORTING II**

Includes investigation, research, diagrams, and detail drawing preparation on basic framing systems in house construction. Lab hours arranged. Prerequisites: ARC 181

Instructor permission required.

Additional Fee: \$51.50

6332 5 Cr 10:00AM-10:50AM Th 09/29/16-12/08/16 19 203Lunceford, Ce [ENHANCED]

**ARC 171 DRAFTING TECHNOLOGIES I**

Basic manual drafting skills, orthographics, isometrics, and roof plans for basic design and construction necessary for residential design and printing completed drawings on industry standard hardware. Lab hours arranged.

Prerequisites: English reading with comprehension, composition, and basic verbal skills.

Instructor permission required.

Additional Fee: \$51.50

6352 5 Cr 8:30AM-9:45AM MTWTh 09/26/16-10/27/16 19 203Bushnell, Pop [ENHANCED]

**ARC 181 INTRODUCTION TO AUTOCAD**

Use Windows based AutoCAD applications to produce basic design and production drawings and details, and to save and print drawings on industry standard hardware. Prerequisites: English reading with comprehension, composition, and basic verbal skills and basic keyboarding skills, 30 wpm, or Instructor permission.

Instructor permission required.

Additional Fee: \$51.50

6372 5 Cr 8:30AM-9:45AM MTWTh 10/31/16-12/08/16 19 203Lunceford, Ce [ENHANCED]

**ARC 223 DESIGN PROJECT I**

Project management and design of basic architectural drafting project. Project includes one-story house and placement on a subdivision lot, conforming to regulatory codes, hypothetical client needs, and established schedules. Production of a complete set of computer-drafted and engineered construction drawings. Give effective oral reports of progress. Prerequisites: ARC 173, ARC 181.

Additional Fee: \$27.00

6392 5 Cr 1:00PM-1:50PM T 09/27/16-12/06/16 19 203Bushnell, Pop [ENHANCED]

**ARC 227 SPECIAL INTERN PROJECT**

Complete the written Work-Based Learning Experience Plan. Prerequisites: Instructor permission required.

Instructor permission required.

Additional Fee: \$27.00

63A2 5 Cr ARRANGED 09/26/16-12/09/16 19 203Bushnell, Pop

**ARC 229 SPECIAL DESIGN PROJECT**

Complete Special Design Project as assigned by the instructor to aid in Realistic Training. 231, ARC 281.

Additional Fee: \$51.50

63B2 5 Cr 1:00PM-1:50PM Th 09/29/16-12/08/16 19 203Lunceford, Ce

**ARC 255 EMPLOYMENT RESEARCH**

Basic job-seeking skill activities, including résumé preparation, employer contacts, presentation activities, and employment opportunities.

Additional Fee: \$31.90

63J2 1 Cr 1:00PM-1:50PM W 09/28/16-12/07/16 19 203Bushnell, Pop [ENHANCED]

**ARC 262 INTRODUCTION TO THREE DIMENSIONAL MODELING**

Covers basic X, Y, and Z coordinate concepts and three dimensional digital building massing. Lab hours arranged. Prerequisites: ARC 181

Additional Fee: \$41.70

63D2 3 Cr 10:00AM-10:50AM W 09/28/16-12/07/16 19 203Lunceford, Ce [ENHANCED]

**ARC 283 BUILDING INFORMATION MODELING**

Covers utilization of Building Information Modeling (BIM) software interface, modeling, editing and annotation tools. Prerequisites: ARC 262, 281

Instructor permission required.

Additional Fee: \$51.50

63F2 5 Cr 2:00PM-2:50PM MW 09/26/16-12/14/16 19 203Lunceford, Ce [ENHANCED]

**ARC 293 ENGINEERING STATICS**

Beam loading, shear and moment diagrams, analysis, calculations, and selection of wood members for light framing. Material stress is computed. Lab hours arranged. Prerequisites: ARC 125, MAT 105 or higher.

Additional Fee: \$27.00

63H2 5 Cr 2:00PM-2:50PM TTh 09/27/16-12/08/16 19 203Lunceford, Ce [ENHANCED]

**ARCHITECTURAL CAD DRAFTING (I-BEST)****ARC 121 DRAFTING & DESIGN**

Overview of floor plans, line types, and line weights, introduction to media, computer-aided drafting, codes, basic design concepts, and presentation drawings and techniques. Lab hours arranged. Prerequisites: English reading with comprehension, composition, and basic verbal skills.

Additional Fee: \$51.50

632A 5 Cr 1:00PM-1:50PM M 09/26/16-12/12/16 19 203Bushnell, Pop [ENHANCED]

**ARC 142 ARCHITECTURAL REPORTING II**

Includes investigation, research, diagrams, and detail drawing preparation on basic framing systems in house construction. Lab hours arranged. Prerequisites: ARC 181

Instructor permission required.

Additional Fee: \$51.50

632P 5 Cr 10:00AM-10:50AM Th 09/29/16-12/15/16 19 203Lunceford, Ce [ENHANCED]

**ARC 171 DRAFTING TECHNOLOGIES I**

Basic manual drafting skills, orthographics, isometrics, and roof plans for basic design and construction necessary for residential design and printing completed drawings on industry standard hardware. Lab hours arranged.

Prerequisites: English reading with comprehension, composition, and basic verbal skills.

Instructor permission required.

Additional Fee: \$51.50

632D 5 Cr 8:30AM-9:45AM MTWTh 09/26/16-10/25/16 19 201Bushnell, Pop [ENHANCED]

**ARC 181 INTRODUCTION TO AUTOCAD**

Use Windows based AutoCAD applications to produce basic design and production drawings and details, and to save and print drawings on industry standard hardware. Prerequisites: English reading with comprehension, composition, and basic verbal skills and basic keyboarding skills, 30 wpm, or Instructor permission.

Instructor permission required.

Additional Fee: \$51.50

632N 5 Cr 8:30AM-9:45AM MTWTh 10/26/16-12/15/16 19 203Lunceford, Ce [ENHANCED]

### **ARC 253      EMPLOYMENT RESEARCH**

Basic job-seeking skill activities, including résumé preparation, employer contacts, presentation activities, and employment opportunities.

Instructor permission required.

Additional Fee: \$36.80

632Y 2 Cr 1:00PM-1:50PM W 09/28/16-12/14/16 19 203Bushnell, Pop [ENHANCED]

### **ARC 283      BUILDING INFORMATION MODELING**

Covers utilization of Building Information Modeling (BIM) software interface, modeling, editing and annotation tools. Prerequisites: ARC 262, 281

Instructor permission required.

Additional Fee: \$51.50

632B 5 Cr 2:00PM-2:50PM MW 09/26/16-12/14/16 19 203Lunceford, Ce [ENHANCED]

## **ART**

### **ART& 100      ART APPRECIATION**

Introduce to the diversity of the art world from ancient civilizations to contemporary society. A discussion of art terminology and methods will be covered in an overview of artist's materials, techniques.

0501 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Rendal, Cami [ONLINE]

## **AUTOMOTIVE COLLISION TECHNICIAN**

### **IAUT 102      INTRODUCTION TO AUTOMOTIVE ELECTRICAL**

This course is an introduction to the automotive industry. Students will learn about the industry, automobile safety, pollution and hygiene, basic hand tools, fasteners and resume preparation.

CO-REQUISITES

IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

96AC 4 Cr 3:00PM-6:00PM DAILY 09/26/16-12/16/16 03 402Tolson, Lesli

96S2 3 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 402Tolson, Lesli

96X2 3 Cr 2:30PM-8:30PM DAILY 09/26/16-12/16/16 03 402Staff

### **IAUT 104      INTRODUCTION TO AUTOMOTIVE ELECTRICAL**

This course is an introduction to automotive electrical systems. Students will learn electrical theory, basic electrical testing equipment and procedures and proper wire splicing and repairs.

CO-REQUISITES

IAUT 102, IAUT 115, IAUT 130, and IAUT 139.

96AD 4 Cr 3:00PM-6:00PM DAILY 09/26/16-12/16/16 03 402Tolson, Lesli

96T2 4 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 402Tolson, Lesli

96Y2 4 Cr 2:30PM-8:30PM DAILY 09/26/16-12/16/16 03 402Staff



**IAUT 115      INTRO TO AUTOMOTIVE STEERING, SUSPENSION & BRAKE**

This course is an introduction to automotive steering, suspension and braking systems. Students will learn the basic theory of these systems, how to put a vehicle on a lift and perform inspections, and how to perform a four-wheel alignment.

**CO-REQUISITES**

IAUT 102, IAUT 104, IAUT 130, and IAUT 139.

96AF	5 Cr	3:00PM-6:00PM	DAILY	09/26/16-12/16/16	03 402	Tolson, Lesli
96U2	5 Cr	7:30AM-1:50PM	DAILY	09/26/16-12/16/16	03 402	Tolson, Lesli
96Z2	5 Cr	2:30PM-8:30PM	DAILY	09/26/16-12/16/16	03 402	Staff

**IAUT 130      AUTOMOTIVE HVAC**

Students will learn auto HVAC system diagnosis and proper service techniques.

**CO-REQUISITES**

IAUT 102, IAUT 104, IAUT 115, and IAUT 139.

Additional Fee: \$59.80

96AB	2 Cr	2:30PM-8:30PM	DAILY	09/26/16-12/16/16	03 402	Staff
96AG	2 Cr	3:00PM-6:00PM	DAILY	09/26/16-12/16/16	03 402	Tolson, Lesli
96V2	2 Cr	7:30AM-1:50PM	DAILY	09/26/16-12/16/16	03 402	Tolson, Lesli

**IAUT 139      BASIC AUTOMOTIVE WELDING**

This course is an introduction to automotive welding. Includes basic welding using Oxy-Fuel, MIG and other processes used in automotive repair.

**CO-REQUISITES**

IAUT 102, IAUT 104, IAUT 115, and IAUT 130.

Additional Fee: \$74.50

96AA	5 Cr	2:30PM-8:30PM	DAILY	09/26/16-12/16/16	03 402	Staff
96W2	5 Cr	7:30AM-1:50PM	DAILY	09/26/16-12/16/16	03 402	Tolson, Lesli

**ACT 102      FUNDAMENTALS OF COLLISION REPAIR**

Explore career safety, industry certifications, vehicle construction, and an overview of the career field.

Additional Fee: \$45.70

9602	3 Cr	7:30AM-1:50PM	DAILY	09/26/16-12/16/16	03 301	Freeman, Kurt
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**ACT 106      BODY SHOP EQUIPMENT**

Covers operating hand tools, power tools, and shop equipment. Explore air systems and their design and function.

Additional Fee: \$45.70

9612	3 Cr	7:30AM-1:50PM	DAILY	09/26/16-12/16/16	03 301	Freeman, Kurt
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**ACT 110      WELDING, HEATING, AND CUTTING**

Covers the skills of welding, heating, and cutting as it relates to the Collision Industry.

Additional Fee: \$50.60

9622	4 Cr	7:30AM-1:50PM	DAILY	09/26/16-12/16/16	03 301	Freeman, Kurt
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**ACT 115      PLASTIC/SMC REPAIR**

Explore plastic, fiberglass, and SMC repairs as they relate to the Collision Industry.

Additional Fee: \$50.60

9632 4 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 301Freeman, Kurt

**ACT 120 GLASS, TRIM & HARDWARE**

Covers the practical skills used to repair/replace door locks and windows and to repair water leaks on car and truck bodies, interior parts, and door skin repair.

Additional Fee: \$55.50

9642 5 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 301Freeman, Kurt

**ACT 125 INTRODUCTION TO METAL STRAIGHTENING**

Introduces basic body panel straightening techniques.

Additional Fee: \$45.70

9652 3 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 301Freeman, Kurt

**ACT 145 COLLISION ESTIMATING**

Covers collision damage estimating, reviewing work orders, and acquiring work skills for job success.

Additional Fee: \$55.50

9662 5 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 301Richards, G

**ACT 151 REFINISH EQUIPMENT PREPARATION**

Covers paint shop equipment and painting fundamentals.

Additional Fee: \$60.40

9672 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 301Richards, G

**ACT 156 PRE-PRIME PREPARATION**

Explores corrosion protections and vehicle refinish preparation.

Additional Fee: \$55.50

9682 5 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 301Richards, G

**ACT 157 POST-PRIME PREPARATION**

Explores final preparations, blocking, and final sanding for application of topcoat.

Additional Fee: \$55.50

9692 5 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 301Richards, G

## **AUTOMOTIVE RESTORATION AND CUSTOMIZATION**

**ARCF 103 FUNDAMENTALS OF SHOP EQUIPMENT**

Covers shop safety, fundamentals of tool use, and proper use of shop equipment.

Instructor permission required.

Additional Fee: \$45.70

17A2 3 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 109 WELDING & METAL SKILLS**

Covers welding, heating, and cutting techniques, using MIG and Oxyacetylene equipment. Students will learn safe handling and correct metal forming techniques of sheet metal.

Instructor permission required.

Additional Fee: \$50.60

17B2 4 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 114 BASIC REPAIRS AND ASSEMBLY**

Covers basic repair and assembly procedures for bolt-on body components.

Instructor permission required.

Additional Fee: \$70.20

17C2 8 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 119 CUSTOM FABRICATION**

Explores basic customizing techniques used on original factory parts, as well as fabrication of custom parts.

Instructor permission required.

Additional Fee: \$60.40

17D2 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 124 REFINISHING EQUIPMENT**

Explores refinishing equipment use and maintenance.

Instructor permission required.

Additional Fee: \$50.60

17F2 4 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 306Richards, G

**ARCF 129 REFINISH PREPARATION**

Explores corrosion protection and vehicle refinish preparation.

Instructor permission required.

Additional Fee: \$65.30

17O2 7 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 306Richards, G

**ARCF 130 ADVANCED PAINT APPLICATION**

Covers application of advanced masking, topcoat shading, and graphics on a restoration or custom project.

Instructor permission required.

Additional Fee: \$60.40

17H2 Var7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 306Richards, G

**ARCF 133 FIBERGLASS/COMPOSITES TECHNIQUES**

Further develop skills in customizing techniques used on original factory parts, as well as fabrication of custom parts.

Instructor permission required.

Additional Fee: \$60.40

17J2 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 134 CUSTOM REFINISHING**

Covers top coat, clear coat, and custom refinishing.

Instructor permission required.

Additional Fee: \$60.40

17I2 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 306Richards, G

**ARCF 141 SURFACE IMPERFECTIONS/SHOW AND SHINE**

Covers paint application problem solving and show detailing.

Instructor permission required.

Additional Fee: \$50.60

17L2 4 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 306Richards, G

**ARCF 154      AUTOMOTIVE RESTORATION & CUSTOM LAB**

Finish projects and competencies in restoration and/or customizing. 9 credits in summer quarter; variable credit, other three quarters.

Instructor permission required.

Additional Fee: \$75.10

1722 9 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 159      METAL STRENGTHENING AND SHAPING**

Metal straightening and shaping techniques on a custom or restoration project.

Instructor permission required.

Additional Fee: \$60.40

17N2 Var7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 167      CUSTOM PAINT APPLICATION**

Covers application of custom masking, topcoat shading, and graphics.

Instructor permission required.

Additional Fee: \$45.70

17P2 3 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 306Richards, G

**ARCF 168      APPLIED METAL SKILLS**

Covers application of previously acquired metal skills as they relate to the student's project work.

Instructor permission required.

Additional Fee: \$45.70

17Q2 3 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**ARCF 170      CUSTOM REFINISHING - SPECIAL PROJECTS**

Develop skills in advanced custom and/or restoration techniques. Students will have the opportunity to apply knowledge to projects of personal interest, as assigned, and/or job shadowing.

Instructor permission required.

Additional Fee: \$60.40

17R2 Var 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

**AUTOMOTIVE TECHNICIAN****AUT 147      AUTOMOTIVE SUSPENSION AND STEERING**

This module covers theory, diagnosis, and repair of SLA suspension systems, strut suspension systems, parallelogram steering systems, rack and pinion steering systems, rear suspension systems, and computer-controlled suspension systems.

Additional Fee: \$60.40

4632 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 701Smith, Michael

**AUT 149      AUTOMOTIVE SUSPENSION STEERING& WHEEL ALIGNMENT**

Theory and troubleshooting of front suspension systems, steering systems, rear suspension systems, and computer controlled systems. Also covers basic wheel alignment, including two- and four-wheel alignment. Prerequisites:

Must successfully complete AUT 147 and have required tools and textbooks.

Additional Fee: \$65.30

4642 7 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 701Smith, Michael

**AUT 157      AUTOMOTIVE SUSPENSION STEERING& WHEEL ALIGN LAB**

Repair automotive brakes, steering and suspension systems by applying knowledge attained in required courses. This is a hands-on class that uses live projects.

Additional Fee: \$60.40

4652 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 701Smith, Michael

**AUT 209      ELECTRONIC SYSTEMS**

Diagnose and repair automotive electronic systems and basic application of computerized electronic control systems. Upon completion of this course, the student will be familiar with the terminology, basic theory, diagnostics, removal, and installation procedures used on automobiles and light trucks. Prerequisites: Must successfully complete AUT 203 and must have required tools and textbooks.

Additional Fee: \$65.30

46A2 7 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 901Covington, G

**AUT 212      ELECTRICAL SYSTEMS**

Diagnose and repair automotive electrical systems and study basic application of computerized electronic control systems. Upon completion of this course, the student will be familiar with the terminology, basic theory, diagnostics, removal and installation procedures used on automobiles and light trucks.

Additional Fee: \$75.10

4692 9 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 901Covington, G

**AUT 239      CLUTCHES & MANUAL TRANSMISSIONS**

Provides student with the knowledge and skills to competently repair automotive clutches and manual transmissions/transaxles. Upon completion of the course, the student will be familiar with the terminology, basic theory, diagnostics, maintenance, and repair of automobile/light truck clutches and manual transmissions/transaxles. Prerequisites: Must have required tools and textbooks.

Additional Fee: \$31.00

4662 9 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 601Bridges, Wayne [HYBRID]

**AUT 243      AUTOMOTIVE AXLES, DRIVELINES, DIFFEREN&TRANSFER**

Provides the student with the knowledge and skills to competently repair automotive axles, drivelines, differentials, and transfer cases. Upon completion of the course, the student will be familiar with the terminology, basic theory, diagnostics, maintenance and repair of automobile/light truck axles, drivelines, differentials, and transfer cases. Prerequisites: Must successfully complete AUT 239 and have required tools and textbooks.

Additional Fee: \$31.00

4672 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 601Bridges, Wayne [HYBRID]

**AUT 246      MANUAL DRIVE TRAINS & AXLES LAB**

This course is designed to teach the student to competently repair drive train components by applying knowledge attained in required courses. This is a hands-on class, utilizing live projects. Upon completion of this course, the student will be familiar with diagnosis, maintenance, and repair of automobile/light truck manual drive trains.

Prerequisites: Must successfully complete courses AUT 239, 243 and must have required tools and textbooks.

Additional Fee: \$31.00

4682 4 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 601Bridges, Wayne [HYBRID]

**AUT 255      AIR-CONDITIONING, HEATING & VENTILATION**

Theory, troubleshooting, and repair of automotive air-conditioning systems, heating systems, and ventilation systems. Also covers recovery and recycling of both R-12 and R134A refrigerants. Prerequisites: Must successfully complete AUT 203, 209, and have required tools and textbooks.

Additional Fee: \$60.40

46B2 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 901 Covington, G

### **AUT 295 AUTOMOTIVE TECHNICIAN COOPERATIVE TRAINING**

Cooperative Training may be offered to selected students who meet the guidelines and criteria for this work-based learning experience.

Instructor permission required.

Additional Fee: \$31.00

46C2 Var ARRANGED 09/26/16-12/16/16 ARR Bridges, Wayne

### **FAUT 144 FORD BASIC ELECTRICAL SYSTEMS DIAGNOSIS AND TEST**

Diagnose and repair automotive electrical systems using the Symptom-to-System-to-Component-to-Cause process. Use special tools and service equipment associated with electrical diagnosis and repair. Use all service publications in their available formats to obtain needed information for diagnosis.

Perform diagnosis test procedures. Perform repair procedures. Students will become familiar with the tools, terminology, basic theory, diagnostics, removal and installation procedures used during common service operations and will have the opportunity to practice procedures identified as priority tasks in the NATEF (ASE) task list.

#### **PREREQUISITES**

Students must have required textbooks and tools prior to entering this course. Students must have a valid driver's license per the Ford MLR agreement.

#### **CO-REQUISITES**

Concurrent enrollment in FAUT 212 and FAUT 209 is required.

Additional Fee: \$179.40

4602 6 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 801 Brown, David

### **FAUT 209 FORD ELECTRONIC SYSTEMS**

Diagnose and repair automotive electronic systems and basic application of computerized electronic systems. Students will become familiar with the tools, terminology, basic theory, diagnostics, removal, and installation procedures used during common service operations and have the opportunity to practice procedures identified as priority tasks in the NATEF (ASE) "TASK LIST".

#### **PREREQUISITES**

Students must have required tools and textbooks. Students must have a valid driver's license per the Ford MLR agreement.

#### **CO-REQUISITES**

Concurrent enrollment in FAUT 144 and FAUT 212 is required.

Additional Fee: \$65.30

4622 7 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 801 Brown, David

### **FAUT 212 FORD ELECTRICAL SYSTEMS**

Diagnose and repair automotive electrical systems and basic application of electrical systems. Students will become familiar with the tools, terminology, basic theory, diagnostics, removal, and installation procedures used during common service operations and have the opportunity to practice procedures identified as priority tasks in the NATEF (ASE) "TASK LIST".

#### **PREREQUISITES**

Students must have required tools and textbooks. Students must have a valid driver's license per the Ford MLR agreement.

#### CO-REQUISITES

Concurrent enrollment in FAUT 144 and FAUT 209 is required.

Additional Fee: \$75.10

4612 9 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 801Brown, David

## **AVIATION MAINTENANCE TECHNICIAN**

### **AMT 104 BASIC MATHEMATICS, BASIC PHYSICS, AND WEIGHT & BALANCE**

Perform all of the mathematical computations required in the Aviation Maintenance Technician curriculum. Understand the scientific principles that apply to the operation of aircraft, engines and the equipment that the aviation maintenance technician will be in daily contact with. Develop a comprehensive understanding of the importance of weight and balance to aircraft safety, and make all of the required calculations for weight and balance checks, equipment changes, extreme loading checks, and the addition of ballast.

Additional Fee: \$74.50

4402 5 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

### **AMT 116 AIRCRAFT DRAWINGS, CLEANING & CORROSION CONTROL, GROUND OPERATIONS & SERVICING, AND FLUID LINES & FITTINGS**

Sketch aircraft repairs and alterations and understand information presented on typical aircraft blueprints, graphs, and charts. Recognize types of corrosion and know their causes identify and use the proper materials and processes to remove corrosion by-products, treat corroded areas, and apply proper protection. Gain a thorough understanding of the importance of safe ground handling procedures, aircraft movement and storage, and identify aviation fuels. Identify fluid line components, fabricate rigid and flexible fluid lines, and properly install fluid lines on aircraft.

Additional Fee: \$74.50

4412 5 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

### **AMT 119 MATERIALS & PROCESSES**

Learn about identification and selection of non-destructive testing methods, dye-penetrant, eddy current, ultrasound, and magnetic particle inspections, as well as basic heat-treated processes, aircraft hardware, and materials. Inspect and check welds. Perform precision measurements.

Additional Fee: \$74.50

4422 5 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

### **AMT 127 MAINTENANCE FORMS & RECORDS, PUBLICATIONS, AND MECHANICS PRIVILEGES & LIMITATIONS**

Generate and review FAA maintenance forms, records, entries, Publications and Regulations, including Airworthiness Directives, Mechanic Privileges and Limitations.

Additional Fee: \$69.60

4432 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

### **AMT 132 WOOD STRUCTURES, AIRCRAFT COVERINGS, AND FINISHE**

Covers wood aircraft construction, repair and inspection. Students will select, apply, inspect, test, and repair aircraft fabric and fiberglass covering materials. Become familiar with types of aircraft protective coatings, trim applications, markings, finish problems, and the inspection of finishes.

Additional Fee: \$69.60

4442 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC117 Potter, Mike

**AMT 135 AIRCRAFT SHEET METAL STRUCTURES**

Inspection and repair of all types of sheet metal. Information regarding the fabrication, construction, and repair of sheet metal aircraft structures.

Additional Fee: \$69.60

4452 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC117 Potter, Mike

**AMT 136 WELDING, POSITION & WARNING SYSTEMS**

Principles regarding the fabrication, construction, and repair of welded aircraft structures. Principles of operation of speed and configuration warning systems, electrical brake controls, anti-skid systems, and landing gear position indicating and warning systems.

Additional Fee: \$64.70

4462 3 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC117 Potter, Mike

**AMT 137 AIRCRAFT NON-METALIC STRUCTURES**

Covers inspection and repair of all types of non-metallic and composite structures, including transparent plastic enclosures and interiors.

Additional Fee: \$69.60

4472 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC117 Potter, Mike

**AMT 138 AIRCRAFT INSPECTIONS**

Lecture, demonstration, and practical application are used to train the student in the methods and techniques of all phases of aircraft inspections, federal aviation regulations, maintenance record entries, and disposition of those records.

Additional Fee: \$69.60

4492 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC118 Creech, Daniel

**AMT 139 ASSEMBLY & RIGGING**

Covers basic information regarding the assembly of aircraft, components, rigging of all flight control surfaces, balancing and inspection of flight controls, alignment of aircraft structures, and jacking of aircraft.

Additional Fee: \$69.60

4482 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC117 Potter, Mike

**AMT 208 HELICOPTER OPERATIONS AND MAINTENANCE PRACTICES**

Covers history, operations, regulations, publications, records, special use equipment, and basic maintenance fundamentals, as they relate to rotorcraft.

Additional Fee: \$69.60

44A2 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC118 Creech, Daniel

**AMT 210 BASIC ROTOR SYSTEM MAINTENANCE AND REPAIR**

Covers history of rotorcraft and principles of flight; types and function of rotor systems; overhaul of rotor hub assemblies; installation and static balancing of rotors; types and function of anti-torque control systems; inspection of rotor blades using manufacturer's data.

Additional Fee: \$69.60

44B2 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC118 Creech, Daniel

**AMT 212 ADVANCED ROTOR SYSTEMS MAINTENANCE AND REPAIR**



Covers vibration analysis; installation and dynamic balancing of rotor systems; tracking of helicopter rotor blades; principles of helicopter autorotation and adjustment of autorotation RPM for power off operations.

Additional Fee: \$69.60

44C2 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC118 Creech, Daniel

### **AMT 215 HELICOPTER SYSTEMS**

Covers helicopter power plants and controls; fuel systems, turbine fuels, and fuel system components; oil systems and types of oils; mechanical drives, clutches, drive shafts, freewheeling units, and transmissions; flight controls, hydraulic, and instrument systems; rotor rpm, engine out, and master caution and warning systems; electrical systems, NiCad batteries, and starter generators; fuselage structures, and landing gear.

Additional Fee: \$69.60

44D2 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC118 Creech, Daniel

### **AMT 224 POWERPLANT RECIPROCATING ENGINE THEORY**

Covers the history of aircraft engines, principles of energy transformation, theory of operation, engine requirements and configuration, and overhaul of horizontally opposed engines.

Additional Fee: \$79.40

44F2 6 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC120 Vick, Phillip

### **AMT 225 POWERPLANT MAINTENANCE AND OPERATION**

Power plant maintenance and operation consists of theory of operation, engine requirements and configuration and installation, troubleshooting and removal of horizontally opposed engines.

Additional Fee: \$79.40

44G2 6 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC120 Vick, Phillip

### **AMT 226 ENGINE FUEL SYSTEMS AND FIRE PROTECTION**

Fuel systems and fire protection consists of transformation of energy, chemistry of combustion and thermal efficiency of fuel air mixtures. Fire protection covers the components and the operation of fire detection and extinguishing equipment.

Additional Fee: \$54.90

44J2 1 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC120 Vick, Phillip

### **AMT 228 ENGINE FUEL METERING SYSTEMS**

Fuel metering consists of the principles of fuel metering for float carbs, pressure carb, fuel injection, and detonate injection, turbine fuel controls, and electronic engine fuel controls.

Additional Fee: \$74.50

44H2 5 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC120 Vick, Phillip

## **BIOLOGY**

### **BIOL&160 GENERAL BIOLOGY W/LAB**

Provides an introduction to cellular biology for students preparing for the health professions. Major concepts include the structure, reproduction, and metabolism of cells; genetics; ecological perspectives; and evolutionary biology.

**Fall Lab times for item number 0504 will be Wednesdays and Fridays from 9:00 a.m. to 10:00 a.m.**

**Fall Lab times for item number 0505 will be Wednesdays and Fridays from 11:00 a.m. to 12:00 p.m.**

Additional Fee: \$30.00

0504 5 Cr ARRANGED 09/26/16-12/16/16 ARR Noffke, Wendy [HYBRID]  
0505 5 Cr ARRANGED 09/26/16-12/16/16 ARR Noffke, Wendy [HYBRID]

### **BIOL&175 HUMAN BIOLOGY W/LAB**

This course is an in-depth approach to body systems, emphasizing the relationship between structure and functions. This is a laboratory course appropriate for non-science majors or for students beginning study in life sciences.

**Fall lab days for item number 0506 are Wednesday and Friday and the times are arranged**

**Fall lab days for item number 0507 are Tuesday and Wednesday from 8:00 a.m. to 10:50 a.m.**

Additional Fee: \$30.00

0506 5 Cr ARRANGED 09/26/16-12/16/16 ARR Noffke, Wendy [HYBRID]  
0507 5 Cr 8:00AM-10:50AM TTh 09/26/16-12/16/16 ARR Noffke, Wendy [HYBRID]

### **BIOL&241 ANATOMY & PHYSIOLOGY I**

Provides students with the first course of the two-quarter study of body structure and related physiology on cellular through system levels. Includes an in-depth study of cells; tissues; and integumentary, skeletal, muscular, nervous and sensory systems. Laboratory component included.

**Fall quarter lab times for item number 0508 are Monday and Wednesday from 8:00 a.m. to 10:50 a.m.**

**Fall quarter lab times for item number 0509 are Monday and Wednesday from 11:00 a.m. to 1:50 p.m.**

Additional Fee: \$30.00

0508 5 Cr 8:00AM-10:50AM MW 09/26/16-12/16/16 ARR Austin, Laura [HYBRID]  
0509 5 Cr 11:00AM-1:50PM MW 09/26/16-12/16/16 ARR Austin, Laura [HYBRID]

### **BIOL&242 HUMAN ANATOMY & PHYSIOLOGY II**

Provides students with the second course of the two-quarter study of body structure and related physiology on cellular through system levels. Includes an in-depth study of body organization and cardiovascular and lymphatic physiological processes. Includes immunology, respiratory, digestive, metabolic, excretory, reproductive and endocrine systems. Laboratory component included.

**Fall Lab times for item number 0510 will be Tuesday and Thursday from 8:00 a.m. to 10:50 a.m.**

Additional Fee: \$30.00

0510 5 Cr 8:00AM-10:50AM TTh 09/26/16-12/16/16 ARR Austin, Laura [HYBRID]

### **BIOL&260 MICROBIOLOGY**

Provides students with the content of diversity, structure, and physiology of beneficial and harmful microbes. Laboratory practice in identification of microbial species through culturing, staining, and biochemical testing. Includes laboratory.

**Fall Lab times for item number 0511 will be Tuesday and Wednesday the times are arranged**

Additional Fee: \$30.00

0511 5 Cr ARRANGED 09/26/16-12/16/16 ARR Noffke, Wendy [HYBRID]

## **CENTRAL SERVICE/STERILE PROCESSING**

### **MMN 103 INTRODUCTION TO HEALTHCARE**

Covers overall program content, including policies, procedures, philosophy, and terminal objectives. The history and evolution of the Central Service profession, human relations, legal issues, and regulatory agencies affecting the field are explored. Web enhanced.

8302 3 Cr 8:00AM-3:00PM MWTh 09/26/16-10/17/16 21 107Wagers, Jane [ENHANCED]

**MMN 106 ANATOMY & PHYSIOLOGY/MEDICAL TERMINOLOGY**

Explore the overall makeup of the human body, its systems and functions, related medical and surgical terminology. Surgical instrumentation is introduced. Web enhanced. Prerequisite: Completion of MMN 103.  
8312 4 Cr 8:00AM-3:00PM MWTh 10/17/16-11/02/16 21 107Wagers, Jane [ENHANCED]

**MMN 111**

Examination of human pathogens in microbiology. Students will learn about infection control as it relates to the sterilization and disinfection processes. Safety issues in the healthcare environment are covered, including bloodborne pathogens. This unit satisfies the Washington state law for mandatory HIV training for all medical personnel. Web enhanced.  
8322 3 Cr 8:00AM-3:00PM MWTh 11/02/16-11/21/16 21 107Wagers, Jane [ENHANCED]

**MMN 124 SURGICAL INSTRUMENTATION**

Students learn to identify basic and complex surgical instruments. They will demonstrate thorough knowledge of the manufacture, care, and processing of surgical, endoscopic and power instruments. In addition, students will have an understanding of special protocols required with loaner instruments. Web Enhanced. Prerequisite: MMN 103, 106, 111.  
8332 4 Cr 8:00AM-3:00PM MWTh 11/21/16-12/15/16 21 107Wagers, Jane [ENHANCED]

**MMN 213 CLINICAL INTERNSHIP I**

Provides the student with the opportunity to apply the theories and principles of central service and sterilization learned in the classroom to the actual work experience in a central service, sterile processing, or distribution department. The role of the central service technician in a hospital central service/sterile processing department will be the focus. In order to participate in the clinical aspect of the program, students must receive a clear background check as required by the health care facilities, have proof of current immunizations, complete CPR for health care professionals, be able to lift 50 pounds, and be able to work on their feet for up to 8 hours. PREREQUISITES: Successful completion of MMN 103, MMN 106, MMN 111, MMN 124, MMN 126, MMN 129, MMN 132.

Additional Fee: \$14.00

8342 6 Cr ARR DAILY 09/26/16-10/28/16 ARR Wagers, Jane [ENHANCED]

**MMN 215 CLINICAL INTERNSHIP II**

Continued participation in the clinical setting at local facilities allows the student to gain a variety of experiences in Central Service/Sterile Processing and Material Management. Requirements are the same as MMN 213.

PREREQUISITES

Successful completion of MMN 213.

Additional Fee: \$14.00

8352 6 Cr ARR DAILY 11/07/16-12/09/16 ARR Wagers, Jane

**CHEMISTRY****CHEM&110 CHEMICAL CONCEPTS W/LAB**

Applying the chemical principles to energy usage, environmental impact, foods, drugs, and consumer products are emphasized. An introduction to chemistry intended for non-science majors. The course looks at how models of atoms, bonding and the structures of materials provide an understanding of common chemical properties and reactions. Prerequisite: MAT 099 or higher or appropriate COMPASS placement concurrently with this course  
Additional Fee: \$35.00

0512 5 Cr ARRANGED 09/26/16-12/16/16 ARR Celleri [HYBRID]

0513 5 Cr ARRANGED 09/26/16-12/16/16 ARR Celleri [HYBRID]

### **CHEM&121 INTRODUCTION TO CHEMISTRY**

Understanding the metric system, atomic theory, bonding, quantitative relationships, solutions, gases, acids and bases, salts, and nuclear chemistry. Lab included.

**Fall Quarter lab times for item number 0514 will have lab times on Fridays from 8:00 a.m. to 9:50 a.m.**

#### **PREREQUISITES**

Successful completion of CHEM& 110 or high school chemistry; co-requisite: MAT 099 or higher or appropriate COMPASS placement concurrently with this course.

Additional Fee: \$35.00

0514 5 Cr ARRANGED 09/26/16-12/16/16 ARR Celleri [HYBRID]

### **CHEM&131 INTRODUCTION TO ORGANIC BIOCHEMISTRY**

This course is a survey of organic and biochemistry. The following topics are covered: Nomenclature of organic matter, alcohols, alkenes, organic acids and bases, amines & amides, carbohydrates, proteins, enzymes, nucleic acids, and metabolic pathways.

**For Fall Quarter item number 0570 lab day is Friday from 2:00 p.m. to 3:50 p.m.**

**PREREQUISITES:** Successful completion of CHEM& 121.

Additional Fee: \$35.00

~~0570 5 Cr ARRANGED 09/26/16-12/16/16 15 105Celleri~~

## **COLLEGE SUCCESS FOR ALL**

### **COLL 102 COLLEGE SUCCESS FOR ALL**

College Success for All prepares students for success at Clover Park Technical College and beyond. This class is offered Pass/Fail utilizes CANVAS CPTC's online learning management system to get students familiar with this learning environment. Designed to provide students with the basic skills to be successful in college, by developing connections with campus resources, faculty, staff and peers. The course includes 20 hours of classroom instruction and 20 hours of online and computer work. It includes, but is not limited to: study skills, learning styles, communication skills, time management, campus resources, test taking strategies, diversity and campus policies and procedures. This class also includes mandatory safety and FERPA training along with a component on using SALT for financial planning. Beginning in Fall 2016, this course is mandatory for all new students.

#### **PREREQUISITES**

None, but required for all students.

**This course requires attendance at the opening session on September 20<sup>th</sup>, 2016 from 9 a.m. to 1:30 p.m. in the Student Center in Building 23.**

Additional Fee: \$25.00

2P02	3 Cr	7:00AM-7:50AM	DAILY	09/28/16-11/02/16	14 201	Van Beek, Car [HYBRID]
2P12	3 Cr	8:00AM-8:50AM	TWTh	09/27/16-12/13/16	14 104	Perkins, Petr [HYBRID]
2P32	3 Cr	9:00AM-9:50AM	TWTh	09/27/16-12/13/16	15 112	Holster, Elaine [HYBRID]
2P42	3 Cr	9:00AM-9:50AM	TWTh	09/27/16-12/13/16	16 116	Mollas, Tula [HYBRID]
2P72	3 Cr	10:00AM-10:50AM	TWTh	09/27/16-12/13/16	14 104	Wirth, Alexandra [HYBRID]
2P62	3 Cr	10:00AM-10:50AM	MWF	09/26/16-12/16/16	15 112	Holster, Elaine [HYBRID]
2P82	3 Cr	11:00AM-11:50AM	MWF	09/27/16-12/13/16	15 112	Holster, Elaine [HYBRID]
2P92	3 Cr	11:00AM-11:50AM	TWTh	09/27/16-12/13/16	16 205	Schwarder, C [HYBRID]
2PA2	3 Cr	12:00PM-12:50PM	TWTh	09/26/16-12/13/16	16 205	Schwarder, C [HYBRID]
2PB2	3 Cr	12:00PM-12:50PM	TWTh	09/27/16-12/13/16	14 104	Wirth, Alexandra [HYBRID]

2PF2	3 Cr	2:00PM-2:50PM	TWTh	09/27/16-12/13/16	16	116	Mollas, Tula	[HYBRID]
2PH2	3 Cr	3:00PM-3:50PM	TWTh	09/27/16-12/13/16	16	116	S Mollas, Tula	[HYBRID]
2PJ2	3 Cr	4:00PM-4:50PM	MWF	09/27/16-12/13/16	14	104	Felch, Chris	[HYBRID]

## **COMPUTER APPLICATIONS**

### **CAS 105 KEYBOARDING**

Use computers to develop touch control and proper keyboarding techniques; introduction to basic word processing functions.

Additional Fee: \$14.70

<del>2002</del>	<del>3 Cr</del>	<del>8:00AM-8:50AM</del>	<del>MW</del>	<del>09/26/16-12/16/16</del>	<del>11</del>	<del>112</del>	<del>Wilson, Jacki</del>	<del>[HYBRID]</del>
2012	3 Cr	ARRANGED		09/26/16-12/16/16			ON LINE	Westerberg, R [ONLINE]
5702	3 Cr	ARRANGED		09/26/16-12/16/16			ON LINE	Reyggers, Ryan [ONLINE]

### **CAS 115 INTRODUCTION TO COMPUTING**

Explore personal computer concepts from a user's perspective. In this introductory course, learn computer terminology; run programs; save, retrieve, and search for files; use help; and perform computer maintenance. Develop basic skills in word processing, Internet, e-mail, and PowerPoint.

Additional Fee: \$14.70

2022	3 Cr	10:00AM-10:50AM	MW	09/26/16-12/16/16	11	112	Calip, Vincent	[HYBRID]
2032	3 Cr	9:00AM-9:50AM	DAILY	09/26/16-12/16/16	11	112	Wilson	[ENHANCED]

### **CAS 121 WORD I**

Use beginning word-processing techniques while creating and editing business documents. Create tables, columns, envelopes and mailing labels. Work with special features to track and review changes and compare documents.

Additional Fee: \$14.70

<del>2042</del>	<del>3 Cr</del>	<del>11:00AM-11:50AM</del>	<del>MW</del>	<del>09/26/16-12/16/16</del>	<del>11</del>	<del>112</del>	<del>Calip, Vincent</del>	<del>[HYBRID]</del>
2052	3 Cr	ARRANGED		09/26/16-12/16/16			ON LINE	Westerberg, R [ONLINE]

### **CAS 125 WORD II**

Explore advanced word processing with Microsoft Word. Perform mail merges; create styles; use advanced graphics tools; create basic forms with formulas; and utilize advanced report functions including indexes. Create macros and modify the Word environment. Prerequisite: CAS 120

<del>2062</del>	<del>3 Cr</del>	<del>ARRANGED</del>	<del>09/26/16-12/16/16</del>	<del>ON LINE</del>	<del>Westerberg, R</del>	<del>[ONLINE]</del>
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### **CAS 130 EXCEL I**

Create and analyze professionally-formatted spreadsheets. Enter data, formulas, and functions. Create charts and insert graphics. Sort and filter lists. Prerequisite: Math 82 skills preferred.

2072	3 Cr	ARRANGED		09/26/16-12/16/16			ON LINE	Westerberg, R [ONLINE]
<del>2082</del>	<del>3 Cr</del>	<del>2:30PM-4:00PM</del>	<del>TTh</del>	<del>09/27/16-12/16/16</del>	<del>11</del>	<del>112</del>	<del>Calip, Vincent</del>	<del>[HYBRID]</del>

### **CAS 135 EXCEL II**

Use advanced spreadsheet features and functions to analyze and project data. Learn how to use what-if analysis tools such as scenarios and solver. Create macros; validate data; link worksheets/books; use pivot tables; find errors; and share, merge, and protect workbooks. Prerequisite: CAS 130.

2092	3 Cr	ARRANGED		09/26/16-12/16/16			ON LINE	Westerberg, R [ONLINE]
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**CAS 141 POWERPOINT**

Create professionally formatted presentations that include animation and transitions. Insert and format charts, graphics, diagrams and pictures. Save presentations for various delivery options.

20A2 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Westerberg, R [ONLINE]  
~~20B2 3 Cr 1:00PM-1:50PM MW 09/26/16-12/16/16 11 112 Calip, Vincent [HYBRID]~~

**CAS 145 PUBLISHER**

Explore desktop publishing in this project-based class. Create and edit flyers, newsletters, brochures, logos, calendars, Web pages, and various business publications. Use mail merge to create letters and labels. Use tools to edit text, colors, graphic design objects, and logos. Prepare files for commercial printing.

20C2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Westerberg, R [ONLINE]  
~~20D2 5 Cr 1:30PM-2:20PM TTh 09/27/16-12/16/16 11 112 Calip, Vincent [HYBRID]~~

**CAS 151 ACCESS I**

Develop basic relational databases as you create, edit, format, and print tables, queries, forms, and reports. Copy records and import tables from another Access database. Define field properties and create relationships. Run, sort and filter queries. Use comparison and logical operators, and perform calculations. Explore the basics of creating a cohesive database.

20F2 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Westerberg, R [ONLINE]

**COMPUTER PROGRAMMING AND WEB DEVELOPMENT****CPW 101 PROGRAMMING FUNDAMENTALS**

This course is an introduction to programming concepts that enforces good programming style and logical thinking. Designed for students with little or no programming language experience, it begins with basic general programming concepts and key concepts of structure. Course then progresses to the intricacies of decision-making, looping, array manipulation, and methods.

Additional Fee: \$24.50

5402 5 Cr 12:30PM-3:30PM MW 09/26/16-12/14/16 11 111W Meerdink, Ken [ENHANCED]

**CPW 116 .NET PROGRAMMING**

Learn to program using .NET Framework with focus on desktop and console applications. Use decision structures, loops, and arrays to solve problems. Apply exception handling and data validation to programs. Use the predefined libraries in .NET Framework to solve problems. Create methods and learn to pass and return arguments. Create classes and use the classes as objects in programming. Use databases to store and retrieve the data from the applications.

PREREQUISITES

CPW 142, CPW 150.

Additional Fee: \$24.50

5412 5 Cr 8:30AM-11:30AM MW 09/26/16-12/14/16 11 111E Ortiz, Joseph [ENHANCED]

**CPW 120 WEB GRAPHICS**

Use Photoshop to make your website attractive and fast loading. Use Illustrator to make logos and graphical elements for both interface design and vector animations. Use Flash for banner and sidebar advertisements.

Additional Fee: \$24.50

5422 5 Cr 8:30AM-11:30AM MW 09/26/16-12/14/16 11 107Webster, Mark [ENHANCED]

**CPW 143 JAVA OBJECT-ORIENTED PROGRAMMING II**

Build your problem-solving skills with the fundamental concepts and techniques of object-oriented Java programming in analyzing, designing, and implementing computer programs. Practice problem-solving methods and algorithm development to analyze, design, implement, modify, verify, and document computer programs that solve real-world problems. Develop a good conceptual understanding of data and functional abstraction.

**PREREQUISITES**

Successful completion of CPW 142.

Additional Fee: \$24.50

5432 5 Cr 12:30PM-3:30PM TTh 09/27/16-12/15/16 11 111W Meerdink, Ken [ENHANCED]

**CPW 150 PRINCIPLES OF RELATIONAL DATABASES**

Delve into the fundamental concepts, terminologies, methodologies, and system organizations of database management systems. Develop the theoretical foundation of understanding necessary to design, implement, optimize, query and maintain a database system. Propose, design and develop a database, using a relational database management system to reinforce the theoretical concepts.

Additional Fee: \$24.50

5442 5 Cr 12:30PM-3:30PM TTh 09/27/16-12/15/16 11 111E Ortiz, Joseph [ENHANCED]

**CPW 180 INTRODUCTION TO GAME PROGRAMMING**

Experience the ultimate challenge of computer gaming: designing and creating your own computer games. Develop an introductory academic understanding of the various aspects of the game development process, while applying basic object-oriented programming techniques to create your own tangible first product.

**PREREQUISITES**

Successful completion of CPW 143 or CPW 116.

Additional Fee: \$24.50

5452 5 Cr 9:00AM-3:00PM F 09/30/16-12/16/16 11 111E Ortiz, Joseph [ENHANCED]

**CPW 205 OBJECT-ORIENTED ANALYSIS & DESIGN**

Explore methodologies and technologies used in analyzing, designing and developing object-oriented software systems intended to solve real-world problems. Build on the Systems Development Life Cycle model initially presented in the CPW 101 course to model and design systems using tools such as CRC cards and the Unified Modeling Language, which includes class, use case, and sequence diagrams. Discuss the theoretical and practical aspects of object orientation.

**PREREQUISITES**

Successful completion of CPW 143.

Additional Fee: \$24.50

5462 5 Cr 8:30AM-11:30AM MW 09/26/16-12/14/16 11 111W Meerdink, Ken [ENHANCED]

**CPW 210 ADVANCED DATABASE PROGRAMMING**

Advanced database programming using a commercial relational database management system. Perform object creation, manipulation and control using SQL. Write simple and complex queries to solve problems. Create advanced objects like stored procedures and triggers. Explore non-relational systems and business intelligence.

**PREREQUISITES**

Successful completion of CPW 101, CPW 150.

Additional Fee: \$24.50

5472 5 Cr 8:30AM-11:30AM TTh 09/27/16-12/14/16 11 111E Ortiz, Joseph [ENHANCED]

**CPW 212      ADVANCED .NET PROGRAMMING**

Learn advanced .NET programming – writing classes, working with indexers, overloading operators, and other advanced object-oriented concepts. Work with databases using ADO.NET, databinding, and object-relational mappers. Learn techniques for working non-relational data storage.

**PREREQUISITES**

Successful completion of CPW 116.

Additional Fee: \$24.50

5482 5 Cr                      ARRANGED    09/27/16-12/14/16 11 111E                      Ortiz, Joseph [ENHANCED]

**CPW 217      PORTFOLIO**

Build a portfolio website showcasing skills developed in the Computer Programming and Web Development program. Create a fully functional website from start to finish. Analyze and derive requirements by creating a project proposal or by working with an actual client. Larger projects will utilize source control and emphasize team work.

**PREREQUISITES**

Or Co-requisite CPW 229 or CPW 214.

Additional Fee: \$24.50

5492 5 Cr    12:30PM-3:30PM    TTh    09/27/16-12/15/16 11 106Dague, Bruce [ENHANCED]

**CPW 220      WEB DEVELOPMENT I**

Introduction to PHP scripting, one of the most popular development tools on the web. This course demonstrates using this tool to create dynamic web-based applications. Provides experience using sessions, cookies and web forms to build easily maintainable, interactive and e-commerce enabled sites.

**PREREQUISITES**

Successful completion of CPW 206.

Additional Fee: \$24.50

~~54A2 5 Cr    8:30AM-11:30AM    TTh    09/27/16-12/15/16 11 106Dague, Bruce [ENHANCED]~~

**CPW 229      WEB DEVELOPMENT III**

Combines further studies using PHP scripting and MySQL, one of the most popular open-source database management systems on the web. Explores back-end functionality, interacting with databases and creating dynamic web pages.

**PREREQUISITES**

Successful completion of CPW 227.

Additional Fee: \$24.50

54B2 5 Cr    8:30AM-11:30AM    MW    09/26/16-12/14/16 11 106Dague, Bruce [ENHANCED]

**CPW 250      USER INTERFACE DESIGN**

Build a web interface structure that uses the principles of responsive web design and allows the structure to automatically reformat itself based on the size of the viewport (smartphone, computer, iPad). Use a combination of HTML 5, CSS3, media queries, and jQuery working together to make a responsive web design

**PREREQUISITES**

Successful completion of CPW 118, CPW 120.

Additional Fee: \$24.50

54D2 5 Cr    12:30PM-3:30PM    MW    09/26/16-12/14/16 11 107Webster, Mark [ENHANCED]

**CPW 252      PHONE PROGRAMMING**

Covers the concepts involved with programming on the phone – source control, phone emulators, phone APIs, and deployment.



## PREREQUISITES

Successful completion of CPW 143.

Additional Fee: \$24.50

54F2 5 Cr 8:30AM-11:30AM TTh 09/27/16-12/15/16 11 111W Meerdink, Ken [ENHANCED]

## **COMPUTER NETWORKING AND INFORMATION SYSTEMS SECURITY**

### **NSS 101 IT ESSENTIALS I**

Introduces students to the knowledge and skills necessary to competently install, build, configure, upgrade, troubleshoot, and repair PC compatible hardware, including troubleshooting basic networks and Internet connectivity. Additionally, this course will cover the latest memory, bus, peripherals, and wireless technologies.

Additional Fee: \$74.50

4702 5 Cr 8:00AM-3:00PM MWF 09/26/16-11/02/16 16 107Morris, Cath [ENHANCED]

47U2 5 Cr 6:00PM-9:00PM W 09/28/16-11/02/16 16 207Lanphier, Jay [HYBRID]

### **NSS 105 IT ESSENTIALS II**

Introduces students to the knowledge and skills necessary to competently use, install, configure, upgrade, and troubleshoot current operating systems technologies. Prerequisites: NSS 101 or equivalent knowledge and skills.

Additional Fee: \$69.60

4712 4 Cr 8:00AM-3:00PM MWF 11/04/16-12/16/16 16 107Morris, Cath [ENHANCED]

47V2 4 Cr 6:00PM-9:00PM W 11/09/16-12/14/16 16 207Lanphier, Jay [HYBRID]

### **NSS 109 CISCO NETWORKING I**

The first of four courses in the new Cisco NetAcad CCNA Routing and Switching curriculum, which teaches basics of Ethernet technologies, cabling LANS and WANS, network media, basics of TCP/IP and IP addressing and routing fundamentals.

Additional Fee: \$74.50

4722 5 Cr 12:00PM-3:00PM TTh 09/27/16-12/15/16 16 209Souza, Donald [ENHANCED]

47W2 5 Cr 6:00PM-9:00PM W 09/28/16-12/14/16 16 209Souza, Donald [HYBRID]

### **NSS 120 MS DESKTOP SUPPORT I**

Introduces the student to the knowledge, skills, and tasks necessary to troubleshoot basic problems computer users will face while running a desktop operating system.

Additional Fee: \$74.50

4732 5 Cr 8:00AM-3:00PM MWF 09/26/16-11/02/16 16 207Lanphier, Jay [ENHANCED]

### **NSS 125 MS DESKTOP SUPPORT II**

Introduces the student to the knowledge, skills, and tasks necessary to troubleshoot basic problems computer users will face related to configuring and maintaining applications running on a desktop operating system in an enterprise environment. Prerequisites: NSS 120 or equivalent knowledge and skills.

Additional Fee: \$69.60

4742 4 Cr 8:00AM-3:00PM MWF 11/04/16-12/16/16 16 207Lanphier, Jay [ENHANCED]

### **NSS 135 IMPLEMENTING SYSTEM SECURITY**

Capstone course of general security concepts, communications security, infrastructure security, basics of cryptography, and organizational security. Includes access, attacks, auditing, vulnerabilities, devices, algorithms protocols, disaster recover, and documentation.

Additional Fee: \$69.60

4752 4 Cr 12:00PM-3:00PM TTh 09/27/16-12/15/16 16 207Lanphier, Jay [ENHANCED]

### **NSS 139 SERVER OS INSTALLATION AND CONFIGURATION**

Introduces knowledge, skills and tasks necessary to deploy, support, and secure windows server network operating systems in a variety of stand-alone and enterprise network environments. Provides hands-on training for Information Systems Security professionals responsible for managing accounts and resources, maintaining server resources, monitoring server performance, safeguarding data, and securing server network operating systems. Provides guidance for students pursuing industry certification.

Additional Fee: \$69.60

4762 4 Cr 8:00AM-11:00AM TTh 09/27/16-12/15/16 16 109Souza, Donald [ENHANCED]

### **NSS 140 INTRO TO DATA ANALYSIS**

Introduces the use of software to perform recovery of deleted or corrupted data. Techniques will be used to demonstrate the use of statistical analysis practices to predict or show trends involving security issues of access, crime, or loss prevention.

Additional Fee: \$74.50

4772 5 Cr 8:00AM-11:00AM TTh 09/27/16-12/15/16 16 207Lanphier, Jay [ENHANCED]

### **NSS 144 INTRODUCTION TO MICROSOFT SQL SERVER ADMINISTRAT**

Introduces you to the development and skills required to successfully administer an SQL Server database. This course covers system installation and configuration/architecting, implementation and monitoring security controls, configuring and managing network communications, automating administrative task, disaster prevention and recovery, performance monitoring, optimizing and ensuring high availability.

Additional Fee: \$69.60

4782 4 Cr 12:00PM-3:00PM TTh 09/27/16-12/15/16 16 109Turner, Jeffrey [ENHANCED]

### **NSS 156 CYBER SECURITY FUNDAMENTALS**

This course introduces students to the evolving field of cybersecurity. Students will learn about common cyber-attacks and the techniques used to identify, detect, and defend against cybersecurity threats. They will also gain a basic understanding of personal, physical, network, Internet, and enterprise security. This course also provides a foundation for more advanced study of cybersecurity.

Additional Fee: \$69.60

4792 4 Cr 8:00AM-11:00AM TTh 09/27/16-12/15/16 16 107Morris, Cath

### **NSS 160 INTRODUCTION TO LINUX**

Introduces the fundamentals of the UNIX operating system, concepts, architecture, and administration. The student will practice these basic concepts and approaches using LINUX.

Additional Fee: \$74.50

47A2 5 Cr 12:00PM-3:00PM MWF 09/26/16-12/16/16 16 112Randall Jody [ENHANCED]

### **NSS 162 ADMINISTERING WINDOWS SERVER OS**

Introduces the knowledge and skills necessary for systems administrators to successfully implement core services in windows server operating systems. Provides hands-on exercises where students learn to configure and manage a wide range of services, including Windows deployment services, distributed file systems, and backup and recovery procedures. Provides guidance for students pursuing industry certification.

## PREREQUISITES

Successful completion of NSS 139 or instructor permission.

Additional Fee: \$69.60

47B2 4 Cr 8:00AM-11:00AM MWF 09/26/16-12/16/16 16 109Souza, Donald [ENHANCED]

## **NSS 164 VIRTUALIZATION AND CLOUD TECHNOLOGIES**

Introduces virtualization and cloud technologies needed to advance in today's technology workplace. Provides an overview of virtualization and cloud technologies focusing on using virtualization software in networked environments in building virtual networks, implementing clusters, enhancing performance and security, and using virtualization and cloud management tools to centralize management of multiple virtual servers. This class includes opportunities for hands-on learning experiences to build the skills necessary for a successful career in the computer industry, which is increasingly focused on virtualization.

## PREREQUISITES

Successful completion of CompTIA's A+ and Network+ certifications or equivalent training.

Additional Fee: \$69.60

47C2 4 Cr 8:00AM-10:30AM TTh 09/27/16-12/15/16 16 111Hollowell, Kelly

## **NSS 165 CONTINGENCY PLANNING**

Course consists of an introduction to Disaster Recovery, and Contingency Planning from and Information Technology (IT) aspect. It covers Risk Assessment, Hazard Analysis, Business Impact Analysis, Basic Plan Development, Long-Range Contingency Planning, all which provides basic concepts and recommended process for long-range contingency planning.

Additional Fee: \$69.60

47D2 4 Cr 12:00PM-2:00PM TTh 09/27/16-12/15/16 16 107Morris, Cath

## **NSS 180 INTERNSHIP I**

Gain on-the-job practical field experience combining classroom study with related work experience under the supervision of an employer. Includes scheduled seminars.

Additional Fee: \$59.80

47F2 2 Cr ARRANGED 09/26/16-12/16/16 16 112Randall Jody [ENHANCED]

## **NSS 201 ADVANCED LINUX**

Covers advanced fundamentals of the Linux operating system. The operating system of the Internet, servers and desktop computers. This course is a hands-on, practical approach to the advanced abilities and usage of Linux system concepts, architecture, and administration. Prerequisites: Successful completion of NSS 160.

Additional Fee: \$74.50

47G2 5 Cr 8:00AM-11:00AM MWF 09/26/16-12/16/16 16 111Hollowell, Kelly [ENHANCED]

## **NSS 205 ADVANCED WINDOWS SERVER CONFIGURATION**

Introduces the knowledge and skills necessary for systems administrators to successfully implement advanced services in Windows server operating systems. Provides extensive hands-on exercises where students learn to configure and manage a wide range of services, including network load balancing, clustering, DHCP, DNS, and direct access. Provides guidance for students pursuing industry certification.

## PREREQUISITES

Successful completion of NSS 162 Administering Windows Server OS or instructor permission.

Additional Fee: \$74.50

47H2 5 Cr 12:00PM-3:00PM MWF 09/26/16-12/16/16 16 109Souza, Donald [ENHANCED]

**NSS 250      INTERNSHIP II**

This course provides practical field experience in a security-related specialty area. Includes a scheduled seminar.

Additional Fee: \$59.80

47J2 2 Cr                      ARRANGED    09/26/16-12/16/16 16 112Randall Jody [ENHANCED]

**NSSB 215      COMPUTER FORENSICS**

Basic practices and techniques used in computer forensics. This course introduces the chain of custody and determination of the sequence of events when a misuse or crime is suspected. Topics include: evidence collection and analysis, interpretation of clues from mail messages, news posting, and file signatures on hard drives and other computer storage media. Prerequisites: NSS 140.

Additional Fee: \$69.60

47K2 4 Cr    8:00AM-12:00PM    MTWTh                      11/14/16-12/15/16 16 112Randall Jody

**NSSB 220      SECURITY LAB II**

Provides opportunities for students to gain the knowledge, enhance their skills, and provide hands-on experience needed or required within the industry to be successful in the security field.

CO-REQUISITES

Concurrently enrolled in NSSB 215 and NSSB 246.

Additional Fee: \$64.70

47M2 3 Cr    8:00AM-12:00PM    F                      09/30/16-12/16/16 16 112Randall Jody

**NSSB 246      SCRIPTING FOR PENETRATION TESTERS**

Introduces scripting languages used for one-off programming jobs or prototyping, its use for large generic applications as a flexible way to configure and secure generic software components to fit specialist requirements. This class will illustrate some practical applications of scripting and provide an introduction to some of the most widely used scripting languages.

Additional Fee: \$74.50

47L2 5 Cr    8:00AM-12:00PM    MTWTh                      09/26/16-11/10/16 16 112Randall Jody

**NSSC 201      CISCO NETWORKING II**

The second of four courses in the Cisco Networking Academy curriculum, which teaches networking concepts by applying them to a type of network students may encounter on the job in a small-to-medium business or ISP.

Prerequisites: Successful completion of NSSC 200.

Additional Fee: \$74.50

47P2 5 Cr    8:00AM-11:00AM    MWF    09/26/16-11/02/16 16 209Turner, Jeffrey [ENHANCED]

47X2 5 Cr    6:00PM-9:00PM      W                      09/28/16-12/14/16 16 209Turner, Jeffrey [HYBRID]

**NSSC 203      CISCO NETWORKING III**

The third of four courses in the Cisco Networking Academy curriculum, which familiarizes students with the equipment, applications, and protocols installed in enterprise networks, with a focus on switching, routing, IP addressing, WAN technologies, and security. Prerequisites: Successful completion of NSSC 201

Additional Fee: \$74.50

47Y2 5 Cr    6:00PM-9:00PM      W                      09/28/16-12/14/16 16 209Turner, Jeffrey [HYBRID]

47N2 5 Cr    8:00AM-11:00AM    MWF    11/04/16-12/16/16 16 209Turner, Jeffrey [ENHANCED]

**NSSC 205      CISCO NETWORKING IV**

The last of four courses in the Cisco Networking Academy curriculum, which takes the student through a variety of case studies and role playing exercises, which include gathering requirements, designing basic networks,

establishing proof-of-concept, and performing project management. Prerequisites: Successful completion of NSSC 203

Additional Fee: \$74.50

47R2 5 Cr 8:00AM-11:00AM TThF 09/27/16-11/01/16 16 209Turner, Jeffrey [ENHANCED]

47Z2 5 Cr 6:00PM-9:00PM W 09/28/16-12/14/16 16 209Turner, Jeffrey [HYBRID]

### **NSSC 207 CISCO LEARNING LAB I**

Provides opportunities for students to gain the knowledge, skills, and hands-on experience needed to prepare for the Cisco CCENT certification exam. Prerequisites: Concurrently enrolled in NSSC 200 (Cisco Networking I) & NSSC 201 (Cisco Networking II).

Additional Fee: \$64.70

47S2 3 Cr 12:00PM-3:00PM MWF 09/26/16-12/16/16 16 209Turner, Jeffrey

### **NSSC 208 MANAGING NETWORK SECURITY**

Introduces knowledge and skills needed to install, configure, operate, manage, and verify network security products and security features. The course focuses on implementing IP network security.

#### **PREREQUISITES**

Successful completion of NSSC 205 or current CCENT certification.

Additional Fee: \$74.50

47Q2 5 Cr 8:00AM-11:00AM TThF 11/03/16-12/16/16 16 209Turner, Jeffrey [ENHANCED]

### **NSSC 210 CISCO LEARNING LAB II**

Provides opportunities for students to gain the knowledge, skills, and hands-on experience needed to prepare for the Cisco CCNA certification exam. Prerequisites: Concurrently enrolled in NSSC 203 (Cisco Networking III) & NSSC 205 (Cisco Networking IV).

Additional Fee: \$64.70

47T2 3 Cr 12:00PM-3:00PM TThF 09/27/16-12/16/16 16 209Turner, Jeffrey

## **CONSTRUCTION**

### **CONST105 MEASUREMENT, TOOLS & SAFETY**

Introduction to residential and light construction applications and trades. Explores and applies safety standards to the use of various hand and power tools associated with the carpentry field.

Additional Fee: \$31.00

2202 2 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

### **CONST108 SITE LEVELING, PLANS, CODES & MATERIALS**

Introduction to use and operation of a builder level, including leveling and squaring a building site. Covers building plans, codes, inspections, and construction materials.

Additional Fee: \$31.00

2212 2 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

### **CONST112 FOOTINGS & FOUNDATIONS**

Introduction to the methods of construction footing and foundation forms, terminology and inspections for the typical residential home.

Additional Fee: \$31.00

2222 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

**CONST116 FLOOR FRAMING**

Introduction to the construction procedures and terminology used in framing a residential wood floor.

Additional Fee: \$31.00

2232 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST120 WALL FRAMING, SHEETING & CEILINGS**

Introduction to wall framing construction procedures and terminology, the application of ceiling and/or two-story framing, inspections, sheeting, and aligning.

Additional Fee: \$31.00

2242 5 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST122 ROOF FRAMING**

Introduction to roof framing and the use of a framing square, including both truss roof and stick-built residential roofs.

Additional Fee: \$31.00

2252 5 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST126 ROOFING MATERIALS & INSTALLATION**

Introduction to various roofing materials, including proper installation techniques.

Additional Fee: \$31.00

2262 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST130 STAIRWAY CONSTRUCTION**

Introduction to basic stair construction, including the application of building codes, stairway arrangements, component, and layout.

Additional Fee: \$31.00

2272 4 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST134 EXTERIOR FINISH**

Introduction to the installation of exterior trim, siding, window and door installation, or the equivalent, of typical residential homes.

Additional Fee: \$31.00

2282 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST138 INTERIOR FINISH I**

Introduction to interior wall and ceiling finish, interior doors and hardware, cabinet and counter top installation, interior trim, and finish flooring.

Additional Fee: \$31.00

2292 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST142 INTERIOR FINISH II**

Continuation of interior wall and ceiling finish, interior doors and hardware, cabinet and counter top installation, interior trim and finish flooring.

Additional Fee: \$31.00

22A2 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 [Instructors Day & Quinlan](#)

**CONST146 DECK CONSTRUCTION**

Introduction to outside deck construction, including types, code requirements, and safety.

Additional Fee: \$31.00

22B2 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

**CONST150 CARPENTRY TRADES**

Introduction to trade regulations, other building trades workers, industry and standards organization, and entering the carpentry trade.

Additional Fee: \$31.00

22C2 1 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

**CONSTRUCTION- SUSTAINABLE BUILDING SCIENCE**

**SBS 140 INSULATION BASICS**

Introduction to the different types of insulation commonly used in homes and businesses, with comparisons for their respective costs and levels of energy efficiency.

Additional Fee: \$31.00

22D2 4 Cr 12:00PM-2:30PM DAILY 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

**SBS 145 BUILDING ENVELOPE**

Introduction to the principles of heat, light, sound, moisture, and air movement within a residential structure, including an overview of external factors which impact a building's energy integrity.

Additional Fee: \$31.00

22F2 5 Cr 12:00PM-2:30PM DAILY 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

**SBS 185 SERVICE LEARNING PROJECT**

A capstone project that gives students an opportunity to apply their sustainable building science knowledge in a real life setting, focusing on helping nonprofit organizations achieve sustainability in the buildings where they live, work, and serve the public.

Instructor permission required.

Additional Fee: \$31.00

22G2 3 Cr ARRANGED 09/26/16-12/16/16 05 100 Instructors Day & Quinlan

**CORE ALLIED HEALTH**

**CAH 102 MEDICAL TERMINOLOGY**

Provides students with the basic techniques of medical word building using basic word elements. The class will be organized according to specific body systems and will include key terms and the introduction of anatomical, physiological, and pathological terms.

Additional Fee: \$24.50

3002 5 Cr 9:00AM-9:50AM DAILY 09/26/16-12/16/16 21 106 Freyre, Marie

3012 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Freyre, Marie [ONLINE]

3022 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Scott, Patricia [ONLINE]

3032 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Freyre, Marie [ONLINE]

**CAH 103 INTRODUCTION TO HEALTH PROFESSIONS**

Provides an overview of Law & Ethics a student should know to help provide competent, compassionate care to patients.

3042 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Freyre, Marie [ONLINE]

### **CAH 105 COMPUTER APPLICATIONS**

Provides training in the uses of Microsoft Windows and related programs. Students will use computers to develop touch control and proper keyboarding and 10-key techniques.

Additional Fee: \$24.50

3052 5 Cr 10:00AM-10:50AM DAILY 09/26/16-12/16/16 21 106Mandley, L [HYBRID]

3062 5 Cr 11:00AM-11:50AM DAILY 09/26/16-12/16/16 21 106Mandley, L [HYBRID]

3072 5 Cr 3:00PM-5:30PM MW 09/26/16-12/16/16 21 106Mandley, L [HYBRID]

## **COSMETOLOGY**

### **COSMO112 INFECTION CONTROL PRINCIPLES AND PRACTICES**

Acquire knowledge for successful and responsible infection control, first aid, and safety. Learn concepts of microbiology, safe handling of tools, proper dispensing of chemicals, Barbicide certification and how to prevent the spread of bacteria in a school or salon.

Additional Fee: \$78.00

53R2 2 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 08 208Chiaro, Loree [ENHANCED]

5302 2 Cr 7:30AM-3:30PM TWThF 09/27/16-12/16/16 08 207Maguire [ENHANCED]

### **COSMO116 GENERAL SCIENCE OF HAIR**

Learn why professional hair services must be based on an understanding of the growth, structure and composition of hair. Gain skills in evaluating various hair and scalp conditions. Understand the purpose for draping and scalp massage as a foundation for attentive client care services.

Additional Fee: \$78.00

53S2 5 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 08 208Chiaro, Loree [ENHANCED]

5312 5 Cr 7:30AM-3:30PM TWThF 09/27/16-12/16/16 08 207Maguire [ENHANCED]

### **COSMO123 COSMETOLOGY FUNDAMENTALS**

Learn design and art principles as guidelines to assist you in achieving designs for the client. Gain skills in the consultation portion of hair design and practice good life skills and professional behaviors for salon success and effective communication.

Additional Fee: \$78.00

53T2 2 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 08 208Chiaro, Loree [ENHANCED]

5322 2 Cr 7:30AM-3:30PM TWThF 09/27/16-12/16/16 08 207Maguire [ENHANCED]

### **COSMO136 APPLICATIONS OF HAIRCUTTING AND HAIRSTYLING**

This course introduces foundational haircutting techniques and tools that other hairstyling is built upon. Covers safe tool usage, including shears, taper shears, razor and clippers. Reinforces the practice of infection control and safety processes required by salon standards as well as state board regulations.

Additional Fee: \$78.00

53U2 14 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 08 208Chiaro, Loree [ENHANCED]

5332 14 Cr 7:30AM-3:30PM TWThF 09/27/16-12/16/16 08 207Maguire [ENHANCED]

### **COSMO142 ADVANCED APPLICATIONS OF HAIRCUTTING & HAIRSTYLING**



Presents advanced skills and techniques that enable students to remain current with haircutting trends. Procedures and theory are reinforced to achieve desired effect. Infection control principles and practices are reinforced.

**PREREQUISITES**

Successful completion of COSMO 136.

Additional Fee: \$78.00

53J2 4 Cr 7:30AM-3:00PM TWThF 09/27/16-12/16/16 08 205Ganyon, Miche [ENHANCED]

**COSMO146 CHEMICAL TEXTURE SERVICE**

Presents the three main concepts of chemical texturizing: perming, relaxing with chemicals and reforming curls. This course covers the theory of chemical texturizing, tools used to achieve desired effects, infection control principles and practices, and client consultation.

**PREREQUISITES**

Successful completion of COSMO 112, COSMO 116, COSMO 123, and COSMO 136.

Additional Fee: \$78.00

5352 6 Cr 7:30AM-3:00PM TWThF 09/27/16-12/16/16 08 208Frederick [ENHANCED]

**COSMO158 GENERAL SCIENCE OF HAIR COLORING**

Introduces the creative artistry of color through the study of color theory, the color wheel, basic color applications and techniques, and basic formulation.

**PREREQUISITES**

Successful completion of COSMO 116, COSMO 123, and COSMO 136.

Additional Fee: \$78.00

53K2 7 Cr 7:30AM-3:00PM TWThF 09/27/16-12/16/16 08 205Ganyon, Miche [ENHANCED]

**COSMO164 LAB CLINIC I**

Expand skills and knowledge by offering services to live models/clients in CPTC's student clinic, a realistic salon environment. This course reinforces skills learned within the Cosmetology program and provides practice in advanced hairstyling and haircutting.

**PREREQUISITES**

Successful completion of COSMO 112, COSMO 116, COSMO 123, and COSMO 136.

Additional Fee: \$14.00

53L2 8 Cr 7:30AM-3:00PM TWThF 09/27/16-12/16/16 08 CL#1 Ganyon, Miche [ENHANCED]

**COSMO175 COSMETOLOGY SALON BUSINESS PRACTICES**

This course introduces the topics of salon business, going in to business for yourself, operating a successful salon, and building your business. Topics include identifying options for going into business for yourself, basic factors to consider when opening a salon, business plans, the importance of record keeping, elements of successful salon operations, and why selling services and products is a vital aspect of a salon's success.

**PREREQUISITES**

Successful completion of COSMO 112, COSMO 116, COSMO 123, COSMO 136, COSMO 142, COSMO 158, and COSMO 164 or instructor approval.

Additional Fee: \$78.00

5362 3 Cr 7:30AM-3:00PM TWThF 09/27/16-12/16/16 08 208Frederick [ENHANCED]

**COSMO182 GENERAL STUDY OF NAILS**

Learn to work with the tools required for nail services and practice fundamental techniques for providing clients with a professional manicure and pedicure on natural nails. Develop skills in safety and sanitation associated with nail care. Topics include basic nail theory, nail disease, disorders and anatomy of the hands. Students will engage in 100 hours of natural nail training as well as preparation for the Washington Department of Licensing State Board Cosmetology written and practical exams.

Additional Fee: \$78.00

5342 4 Cr 7:30AM-3:00PM TWThF 09/27/16-12/16/16 08 208Frederick [ENHANCED]

### **COSMO188 GENERAL SCIENCE OF SKIN**

Additional Fee: \$78.00

53Z2 4 Cr ARRANGED 09/26/16-12/16/16 08 205Deleon, Carin

53AH 4 Cr 7:30AM-3:30PM 09/27/16-12/16/16 08 205Klug, Denise

### **COSMO228 CLOVER PARK PRACTICAL PREPARATION**

Prepares the student to take the Washington State practical skills exam. Topics of safety and sanitation, hair design, hair sculpting, chemical texturizing, hair coloring, skin care, and nail care will be reviewed. Prerequisite: Successful completion of COSMO 170.

Instructor permission required.

Additional Fee: \$78.00

53AJ 3 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 08 CL#4 Staff

53G2 3 Cr 7:30AM-3:30PM TWThF 09/27/16-12/16/16 08 CL#4 Lind, Connie [ENHANCED]

### **COSMO230 LAB CLINIC IV**

Hands-on learning experience in Clover Park Technical College's student clinic. The learner will continue skills applied in Lab Clinic 1, 2, and 3, in addition to artificial hair services, advanced hair sculpture and advanced chemical texturizing techniques. Prerequisite: Successful completion of COSMO 170.

Instructor permission required.

Additional Fee: \$92.00

53AK 9 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 08 CL#4 Staff

53H2 9 Cr 7:30AM-3:30PM TWThF 09/27/16-12/16/16 08 CL#4 Lind, Connie [ENHANCED]

### **COSMO248 INDUSTRY INTERNSHIP I**

Provides on-the-job experience for students in the cosmetology field. This is an optional 33-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.

PREREQUISITES

Instructor approval.

Additional Fee: \$92.00

53BB 1 Cr ARRANGED 09/26/16-12/16/16 ARR Staff

5382 1 Cr ARRANGED 09/27/16-12/16/16 ARR Lind, Connie

### **COSMO250 INDUSTRY INTERNSHIP II**

Provides on-the-job experience for students in the cosmetology field. This is an optional 66-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.

PREREQUISITES

Instructor approval.

Additional Fee: \$92.00

53BC 2 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 ARR Staff  
5392 2 Cr ARRANGED 09/27/16-12/16/16 ARR Lind, Connie

### **COSMO252 INDUSTRY INTERNSHIP III**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 99-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.

#### **PREREQUISITES**

Instructor approval.

Additional Fee: \$92.00

53BD 3 Cr ARRANGED 09/26/16-12/16/16 ARR Staff  
53A2 3 Cr ARRANGED 09/27/16-12/16/16 ARR Lind, Connie

### **COSMO254 INDUSTRY INTERNSHIP IV**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 132-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.

#### **PREREQUISITES**

Instructor approval.

Additional Fee: \$92.00

53BF 4 Cr ARRANGED 09/26/16-12/16/16 ARR Staff  
53B2 4 Cr ARRANGED 09/27/16-12/16/16 ARR Lind, Connie

### **COSMO256 INDUSTRY INTERNSHIP V**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 160-hour course for students who want an internship experience or who need additional hours meet the state licensing requirements.

#### **PREREQUISITES**

Instructor approval.

Additional Fee: \$92.00

53BG 5 Cr 3:00PM-9:30PM DAILY 09/26/16-12/16/16 ARR Staff  
53C2 5 Cr ARRANGED 09/27/16-12/16/16 ARR Lind, Connie

## **CULINARY ARTS**

### **CUL 104 SANITATION IN FOOD SERVICE OPERATIONS**

Presents the principles of food microbiology, food borne illness and the standards that are enforced by regulatory agencies. Applied measures for the prevention of food borne illness and other microbiological factors are incorporated. National Restaurant Association ServSafe Certification.

Instructor permission required.

Additional Fee: \$130.00

3232 3 Cr 9:00AM-2:00PM MT 09/26/16-11/01/16 31 100Massey, Richard [ENHANCED]

### **CUL 107 PROFESSIONAL COOKING I**

Provides the student with a general understanding of the professional kitchen. Topics include kitchen safety, dishwasher procedures, how to handle food in a safe environment, selection and caring of knives, understanding of how a professional kitchen is organized and the rationale, cleaning, and function of kitchen equipment.

Students will learn to cut foods in a variety of shapes as well as recognize and use a variety of herbs and spices.

Instructor permission required.

Additional Fee: \$130.00

3222 7 Cr 7:00AM-9:00AM DAILY 09/26/16-12/16/16 31 100Massey, Richard [ENHANCED]

**CUL 109 COOKING METHODS I**

Introduces students to the experience of preparing and cooking meals for restaurant service. Students will be given assignments and will rotate through restaurant stations throughout the quarter. Students will learn dish washing and basic food preparation, reading and following standardized recipes, along with deli operations and station organization.

Instructor permission required.

Additional Fee: \$164.30

3202 7 Cr 9:15AM-1:30PM WThF 09/28/16-12/16/16 31 100Massey, Richard

**CUL 111 FOOD PREPARATION I**

Practice and apply the skills of a restaurant cook. They will learn the importance of organizing and planning their work stations as well as preparing items needed prior to actual cooking. Topics include fruit and vegetable varieties, uses, and preparation.

Instructor permission required.

Additional Fee: \$130.00

3242 3 Cr 9:00AM-2:00PM MT 11/07/16-12/13/16 31 100Massey, Richard [ENHANCED]

**CUL 123 COOKING METHODS II**

Introduces students to the experience of preparing and cooking meals for restaurant service. Students will be given assignments and will rotate through restaurant stations throughout the quarter. Students will be expected to practice a high level of previously learned competencies in knife skills, sanitation, proper handling and storage of product, and working under stringent time guidelines. Prerequisite: CUL109

Instructor permission required.

Additional Fee: \$164.30

3212 7 Cr 9:15AM-1:30PM WThF 09/28/16-12/16/16 31 100Massey, Richard

**CUL 139 COOKING METHODS III**

Introduces students to the experience of preparing and cooking meals for restaurant service. Students will be given assignments and will rotate through restaurant stations throughout the quarter. Students will be expected to practice a high level of previously learned competencies in knife skills, sanitation, proper handling and storage of product, and working under stringent time guidelines. Prerequisite: CUL123

Instructor permission required.

Additional Fee: \$164.30

3252 7 Cr 9:15AM-1:30PM WThF 09/28/16-12/16/16 31 100Massey, Richard

**DENTAL ASSISTANT**

**DAS 103 GENERAL STUDIES**

This course will introduce the student to the dental profession, ethics and jurisprudence, dental terminology, diversity, and preparing for patient care.

Instructor permission required.

7702 4 Cr ARR 09/26/16-12/12/16 ON LINE Wirth, R [ONLINE]

**DAS 105 BIOMEDICAL SCIENCES**

This course will introduce the student to Microbiology, Disease Transmission, Infection Prevention, Disinfection, Instrument Processing, and Sterilization, Occupational Health & Safety, and Ergonomics.

Instructor permission required.

7712 4 Cr 12:00PM-3:00PM W 09/28/16-12/14/16 21 109Wirth, R [HYBRID]

### **DAS 110 DENTAL SCIENCES I**

This course will introduce the student to tooth morphology, oral embryology, landmarks of the face and oral cavity, and oral health and nutrition to include dental caries, preventive dentistry, and nutrition.

Instructor permission required.

7722 5 Cr 12:00PM-2:00PM TTh 09/27/16-12/15/16 21 109Lewandowski [HYBRID]

### **DAS 113 DENTAL ASSISTING SKILLS I**

This course will introduce the student to basic dental assisting skills to include moisture control techniques, lab safety, alginate impressions and study models, proper technique for blood pressure and pulse, and dental charting.

Instructor permission required.

7732 4 Cr 2:00PM-3:00PM Th 09/29/16-12/15/16 21 109Wirth, R [HYBRID]

### **DAS 116 FOUNDATIONS OF CLINICAL DENTISTRY**

Introduces the student to the management of a medical or dental emergency in the dental office. In addition, the student will be introduced to the dental treatment room, including the proper names, descriptions, use and care of dental instruments and equipment used in restorative dental procedures.

Instructor permission required.

7742 4 Cr 2:00PM-3:00PM T 09/27/16-12/13/16 21 109Wirth, R [HYBRID]

### **DAS 118 PRINCIPLES OF RADIOGRAPHY I**

Introduces the student to the theory of radiographic techniques including patient and operator safety while exposing radiographs.

Instructor permission required.

7752 1 Cr 2:00PM-3:00PM W 09/28/16-12/14/16 21 109Wirth, R [HYBRID]

### **DAS 223 DENTAL SCIENCES III**

Introduces students to the science of pharmacology, including the recognition of potential drug interactions and the subject of anesthesia and pain control as it applies to dentistry. It also introduces students to anesthesia and pain control, lab and impression materials, and the medically and physically compromised patient.

#### **PREREQUISITES**

Students must successfully complete DAS 103, 105, 110, 113, 116, 118, 120, 125, 130, 135, and 140 and complete the Infection Control component of the DANB certification exam prior to continuing in the Dental Assistant Program.

77A2 3 Cr 8:30AM-11:30AM T 09/27/16-12/13/16 21 109Wirth, R [HYBRID]

### **DAS 224 DENTAL ASSISTING SKILLS III**

This course will introduce the student to general dentistry and matrix systems, advanced dental cements, advanced study models, advanced rubber dam, advanced charting, nightguard and whitening tray construction, culminating in the capstone chairside assessment. Prerequisite: Successful completion of DAS 103, DAS 105, DAS 110, DAS 113, DAS 115, DAS 118, DAS 120, DAS 125, DAS 130, DAS 135, DAS 140 and completion of ICE.

77B2 7 Cr 8:30AM-11:30AM M 09/26/16-12/12/16 21 109Lewandowski [HYBRID]

### **DAS 226 DENTAL SPECIALTIES II**

This course explores in depth the dental specialties of fixed prosthodontics to include impression materials and laboratory techniques, removable prosthodontics and dental implants, oral and maxillofacial surgery, and pediatric dentistry. In addition, the student will be introduced to the expanded function of pit and fissure sealants, construction and placement of provisional crowns and bridges, polishing full and partial dentures, and retraction cord placement. Prerequisite: Student must successfully complete DAS 103, DAS 105, DAS 110, DAS 113, DAS 115, DAS 120, DAS 125, DAS 130, DAS 135, DAS 140, and completion of the Infection Control component of the DANB certification exam prior to continuing in the Dental Assisting Program.

77C2 8 Cr 8:30AM-11:30AM W 09/28/16-12/14/16 21 109Lewandowski [HYBRID]

### **DAS 228 CERTIFICATION REVIEW II**

This course will prepare the student to take their second Dental Assistant National Board certification exam Radiation Health and Safety. Prerequisite: Successful completion of DAS 103, DAS 105, DAS 110, DAS 113, DAS 115, DAS 118, DAS 120, DAS 125, DAS 130, DAS 135, DAS 140, and completion of ICE.

Additional Fee: \$274.00

77D2 1 Cr ARRANGED 09/26/16-12/16/16 ON LINE Lewandowski [ONLINE]

### **DAS 237 CLINICAL EXPERIENCE I**

Provides Dental Assistant students with the opportunity to utilize the skills and information acquired in DAS 103-228. Students will spend 30 hours, three (3) hours a week volunteering in an infection control assistant capacity in a private office and/or dental clinic. Prerequisite: Student must successfully complete DAS 103 140 and completion of the Infection Control certification prior to continuing in the Dental Assisting Program.

Additional Fee: \$14.00

77F2 1 Cr ARRANGED 09/26/16-12/16/16 ON LINE Lewandowski [ONLINE]

### **DAS 239 CLINICAL EXPERIENCE II**

Provides Dental Assistant students with the opportunity to utilize the advanced skills and information acquired in DAS 103-237. Students will spend 270 hours rotating through a minimum of two private offices or dental clinics. Prerequisite: Student must successfully complete DAS 103 237, Infection Control certification, all college level general education courses, and completion of the Radiation Health & Safety component prior to continuing in the Dental Assisting.

Instructor permission required.

Additional Fee: \$14.00

77G2 10 Cr ARRANGED 09/26/16-12/16/16 ARR Wirth, R

### **DAS 243 CERTIFICATION REVIEW III**

This course will prepare the student to take their third and final Dental Assistant National Board certification exam General Chairside. Upon successful completion of this exam and all other DAS courses, the student will receive their national Certified Dental Assistant credential. Prerequisite: Successful completion of DAS 103-237 and the ICE certification exam and completion of the Radiation Health and Safety certification exam. Successful completion of all general education requirements are also required prior to taking this course.

Instructor permission required.

Additional Fee: \$274.00

77H2 1 Cr ARRANGED 09/26/16-12/16/16 ON LINE Wirth, R [ONLINE]

### **DBOA 103 DENTAL TERMINOLOGY & PROCEDURES**

Introduces information to correctly recognize and identify various occupations within the dental environment. Terminology necessary to complete all other courses. Information provided to accurately identify the names and numbers of teeth in the primary and permanent dentition. Students will complete the Washington State Dental Association (WSDA) HIV/AIDS Course

7762 4 Cr ARRANGED 09/26/16-12/16/16 ON LINE Wirth, R [ONLINE]

**DBOA 111 DENTAL CHARTING, SCHEDULING & RECALL MANAGEMENT**

Explores dental charting symbols and treatment descriptions. Develop, decipher and present a comprehensive treatment plan. Covers the necessary information to accurately develop a patient recall system, maintain productive and effective patient scheduling. Prerequisite or Corequisite: DBOA 104

7772 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Wirth, R [ONLINE]

**DBOA 119 DENTAL DOCUMENTS AND INVENTORY SYSTEMS**

Explores a wide variety of dental office forms and development of manual and computerized inventory and filing systems. Students will have training and access 24 hours a day to the Dentrix Dental Software to learn and practice patient entry information. Organizational skills are the primary emphasis of this course. Prerequisite or Corequisite: DBOA 103.

7782 4 Cr ARRANGED 09/26/16-12/16/16 ON LINE Wirth, R [ONLINE]

**DBOA 135 DENTRIX ADVANCED TRAINING**

Provides expanded Dentrix software skills to students with basic Dentrix Dental Software training and/or experience. Students will have training and access 24 hours a day to the Software to Demonstrate setting up practice defaults in the Office Manager module, manage electronic charting in the Dentrix Dental Software, pursue Dental Insurance claims processing and payment posting processes in the Dentrix software, and explore & generate Management Reports Prerequisite: DBOA 111 and / or industry experience with the Dentrix Dental Software.

7792 2 Cr ARRANGED 09/26/16-12/16/16 ON LINE Wirth, R [ONLINE]

## **DIGITAL ENTERTAINMENT DESIGN AND PRODUCTION**

**DED 102 GENRE STUDIES**

Covers history of film and how economy and politics have affected the films as they realize the symbolism that hides within the films.

Additional Fee: 14.70

~~9002 3 Cr 1:00PM-6:00PM Th 09/29/16-12/15/16 11 STUDA Geary, Shawn [ENHANCED]~~

**DED 104 GENERAL ART**

Covers the fundamentals of traditional art and basic skills of visual expression.

Additional Fee: 19.60

~~9012 4 Cr 1:00PM-7:00PM T 09/27/16-12/13/16 11 STUDA Geary, Shawn [ENHANCED]~~

**DED 106 DIGITAL ART I**

This course is an overview of the primary industry software tools, Adobe Photoshop and Adobe Illustrator, used in the creation of 2D computer graphics. Students will learn the commands and the interfaces of industry-standard raster graphics, vector graphics, with photo modification.

Additional Fee: 19.60

~~9022 4 Cr 1:00PM-6:00PM M 09/26/16-12/12/16 11 106 Felch, Christ [ENHANCED]~~

**DED 108 SCREEN WRITING**

Introduces the fundamentals of working with and writing scripts for many different media projects. This will include, but not be limited to, the creation and breakdown of scenes using voice, action, and dialogue.

CO-REQUISITES

ENG 094.

Additional Fee: 14.70

~~9032 3 Cr 1:00PM-5:00PM W 09/28/16-12/14/16 11 STUDA Felch, Christ [ENHANCED]~~

## **EARLY CARE AND EDUCATION**

**ECE 132 RAISING AND EMOTIONALLY INTELLIGENT CHILD**

This course will focus on teaching parents, teachers, and providers how to use emotion coaching techniques that foster emotional intelligence in children.

41A2 1 Cr ARRANGED 10/03/16-10/31/16 ON LINE Havens, Amber [ONLINE]

**ECE 134 ISSUES AND TRENDS GREEN**

Research issues and current trends in the ECE field in relation to sustainable "green" practices. Students will explore how to implement researched practices in their current work in the field with children, families and peers.

Additional Fee: \$6.00

41L2 2 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECE 141 ECE CURRICULUM: MATH**

Explore the different aspects of early childhood curriculum in mathematics.

4192 2 Cr ARRANGED 10/17/16-12/12/16 ON LINE Kaasa, Melissa [ONLINE]

**ECE 190 PRACTICUM 4: GREEN**

Provides the student with the opportunity for practical field experience with a sustainable practices or "green" specialization. Includes a seminar component.

Additional Fee: \$9.00

41M2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECE 194 PRACTICUM 4: THE EMOTIONALLY INTELLIGENT CHILD**

Provides the student with the opportunity for practical field experience with an "emotional intelligence" specialization. Includes a seminar component.

Additional Fee: \$23.00

41N2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECE 198 PRACTICUM 4: WORKING WITH FAMILIES**

Provides the student with the opportunity for practical field experience with a "working with families" specialization. Includes a seminar component.

Additional Fee: \$23.00

41P2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECE 219 PRACTICUM 4: RESPONSIVE CAREGIVING FOR INFANTS**

Explores responsive caregiving for infants and toddlers including: best practices, building trust, environments, creating lesson plans, theories of development and collaborating with families.

Additional Fee: \$23.00

41Q2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini



**ECE 290 PORTFOLIO ADVENTURE**

Provides the student with the opportunity to compile their Early Care and Education degree portfolio. The portfolio adventure is an opportunity for the student to establish self-marketing goals in the field as well as produce an end product which reflects the student's best practice, passion, and experience to date in the program and field. Students will receive instructor guidance and feedback as well as participate in the ECE Portfolio Review process prior to graduation.

Additional Fee: \$6.00

41R2 2 Cr 4:00PM-5:00PM T 10/06/16-12/08/16 10 111Colombini

**ECED&100 BASIC CHILD CARE TRAINING (STARS)**

Designed to meet licensing requirements for early learning teachers and family home child care providers, the STARS 30-hour basics course is recognized in the MERIT system. Topics include child growth/development, cultural competency, community resources, guidance, and health/safety/nutrition and professional practice.

Additional Fee: \$9.00

4112 3 Cr 6:00PM-9:00PM T 09/27/16-11/29/16 10 111Holland-O'Hern

4182 3 Cr ARRANGED 10/17/16-12/12/16 ON LINE Havens, Amber [ONLINE]

**ECED&105 INTRODUCTION TO EARLY CHILDHOOD EDUCATION**

Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices and program models. Observe children, professionals and programs in action.

Additional Fee: \$15.00

4102 5 Cr 6:15PM-10:15PM M 09/26/16-12/05/16 10 111Felch, Linda [HYBRID]

**ECED&139 ADMINISTRATION OF EARLY LEARNING PROGRAMS**

Develop administrative skills required to develop, open, operate, manage and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and National Association for the Education of Young Children (NAEYC) standard compliance.

Additional Fee: \$9.00

4152 3 Cr 6:00PM-9:00PM T 09/27/16-11/29/16 20 Johnson

**ECS 110 COMPUTER ESSENTIALS FOR THE ECE PROFESSIONAL**

Covers the essential computer tools and techniques necessary for the ECE professional. Designing forms, parent newsletters, flyers, brochures and other materials needed for the smooth running of the child care center. Text required.

Additional Fee: \$31.60

4132 4 Cr 6:00PM-10:00PM Th 09/29/16-12/08/16 21 106Felch, Chris

**ECS 182 ECE PRACTICUM II**

Provides the student with practical field experience. Students will work at community Child Care Centers or the campus Child Development Center allowing them to apply classroom study to the on-the-job situations. Includes a scheduled seminar. Text required.

Additional Fee: \$29.00

41B2 5 Cr 4:00PM-5:00PM M 10/03/16-12/12/16 10 111Colombini

**ECS 202 PRESCHOOL ACTIVITIES**

Covers developmentally appropriate activities for preschoolers. This is a hands-on class that will provide a chance for making and sharing samples.

Additional Fee: \$6.00

4122 2 Cr 6:00PM-9:00PM W 09/28/16-11/16/16 10 205Lockhart

**ECS 217 PRACTICUM IV INFANTS AND TODDLERS**

Provides the student with the opportunity for practical field experience with specialization in infants and toddlers.  
Additional Fee: \$23.00

41C2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECS 230 PRACTICUM IV SCHOOL AGE**

Provides the student with the opportunity for practical field experience with school age specialization.  
Additional Fee: \$23.00

41D2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECS 235 ISSUES AND TRENDS**

Research that covers some of the current issues and trends in the ECE field.  
Additional Fee: \$6.00

41F2 2 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECS 266 LEADERSHIP IN EARLY CHILDHOOD EDUCATION**

Designed for leaders in the early childhood field. Essential skills for effective leadership will be covered: creating a shared vision, team building, managing change, personal development, communication, conflict management, staff development, and empowerment strategies.

Additional Fee: \$12.00

4172 4 Cr 5:30PM-9:30PM Th 09/29/16-12/08/16 10 111Chase-Deitrich

**ECS 286 PRACTICUM IV - LEADERSHIP**

Provides the opportunity for a practical field experience with a leadership specialization. Includes a seminar component. Text required.

Additional Fee: \$23.00

41G2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECS 287 PRACTICUM IV - CHILD DEVELOPMENT**

Provides the opportunity for a practical field experience with a Child Development specialization. Includes a seminar component. Text required.

Additional Fee: \$23.00

41H2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECS 288 PRACTICUM IV - FAMILY CHILDCARE PROFESSIONAL**

Provides the opportunity for a practical field experience with a Family Childcare specialization. Includes a seminar component. Text required.

Additional Fee: \$23.00

41J2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**ECS 297 ECE PRACTICUM IV: SPECIAL NEEDS**

Provides the opportunity for a practical field experience with special needs specialization. Includes a seminar component.

Additional Fee: \$23.00

41K2 3 Cr 5:00PM-6:00PM M 10/03/16-12/12/16 10 111Colombini

**EDUC&130 GUIDING BEHAVIOR**

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance and enhancing group experiences.

Additional Fee: \$9.00

4142 3 Cr 6:15PM-9:30PM M 10/03/16-12/12/16 10 205Colombini

### **EDUC&150 CHILD, FAMILY, AND COMMUNITY**

Students working with children age's birth through school age and their families will learn how to integrate the family and community contexts in which a child develops. The students will learn how to explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child and tools for effective communication.

Additional Fee: \$9.00

4162 3 Cr 6:00PM-9:15PM W 09/28/16-12/07/16 10 111Edmondson

## **ELECTRICIAN LOW VOLTAGE FIRE/SECURITY**

### **EFS 105 AC/DC: BASIC THEORY, FRACTIONS & OHMS LAW**

Introduces basic theory of electricity, electrical measurements of circuits, fractions, Ohm's law, decimals, and decimal fractions. Covers formulas in electrical work, positive and negative numbers, exponents, powers of ten, and solving Ohm's law. Additional Fee: \$25.00

5802 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 106 AC/DC ELECTRICITY: SERIES, PARALLEL & COMB CIRCU**

Introduces the student to voltage, current, and resistance in a series circuit, total values, and control of current in a series circuit. Introduction to Parallel circuits, current and resistance, and voltage in a Parallel circuit.

Prerequisites: EFS 105, or Instructor's permission.

Additional Fee: \$25.00

5812 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 107 AC/DC: ELECTRICITY: ELECTRICAL POWER & POWER APP**

Introduces electric power in electric circuits, solving the power formula for current and voltage. Algebra for complex electric circuits. Resistance of wire of different sizes and length, sizing wire for a given load.

Instantaneous values, maximum values and phase angles of an AC sine wave.

#### **PREREQUISITES**

Successful completion of EFS 106, or instructor's permission.

Additional Fee: \$25.00

5822 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 108 NATIONAL ELECTRICAL CODE PRINT READING**

Introduces the student to practical print reading as it applies to the National Electrical Code. Prerequisites: EFS 105, EFS 106, and EFS 107, or Instructor's permission.

Additional Fee: \$25.00

5832 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 109 NATIONAL ALARM INSTALLER TRAINING PROGRAM**

Introduces the student to basic alarm by completing the comprehensive lessons, viewing video, and completing lesson tests. With final test, the student will have a thorough exposure to alarm systems. Prerequisites: EFS 105, EFS 106, and EFS 107, or Instructor's permission.

Additional Fee: \$25.00

5842 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213 Gordon, James

### **EFS 110 CCTV APPLICATION & DESIGN**

Introduces students to basics of CCTV systems design and applications.

#### **PREREQUISITES**

Successful completion of EFS 105, EFS 106, and EFS 107, or instructor's permission.

Additional Fee: \$25.00

5852 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213 Gordon, James

### **EFS 118 NATIONAL ELECTRICAL CODES**

Introduces National Electrical Codes. Through individual tests, students will be able to research applicable electrical codes.

#### **PREREQUISITES**

Successful completion of EFS 108, EFS 109, and EFS 110, or instructor's permission.

Additional Fee: \$25.00

5862 6 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213 Gordon, James

### **EFS 119 NATIONAL FIRE CODES**

Introduces the National Fire Codes. Through individual tests, students will be able to research applicable fire codes.

#### **PREREQUISITES**

Successful completion of EFS 108, EFS 109, and EFS 110, or instructor's permission.

Additional Fee: \$25.00

5872 6 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213 Gordon, James

### **EFS 121 CCTV FIELD SERVICE & INSTALLATION**

Introduces the student to basic system service and installation of CCTV systems. Through individual lessons, the student will be exposed to the basics of CCTV field service and installation. Prerequisites: EFS 108, EFS 109, and EFS 110, or Instructor's permission.

Additional Fee: \$25.00

5882 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213 Gordon, James

### **EFS 124 WASHINGTON ADMINISTRATIVE CODES**

Introduces the student to the Washington administrative code pertaining to industrial safety and the administrative code pertaining to electrical installations in the state of Washington. Prerequisites: EFS 108, EFS 109, and EFS 110, or Instructor's permission.

Additional Fee: \$25.00

5892 2 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213 Gordon, James

### **EFS 207 ADDRESSABLE FIRE SLC SYSTEMS/DESIGN**

Introduces Addressable and Intelligent Fire Alarm Systems using Signaling Line Circuits (SLC). Includes comprehensive lessons, lecture, and hands-on practical application and design.

#### **PREREQUISITES**

Successful completion of the 78-credit hour Electrician Low Voltage Fire/Security Certificate, or instructor's permission.

Additional Fee: \$25.00

58A2 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 211 BIOMETRICS ACCESS**

Introduces Biometrics Access Control. Various Biometrics Systems are explored, as well as Computer Programmed Access-Control Systems. Includes comprehensive lessons and lecture as well as hands-on practical application, installation and design.

#### **PREREQUISITES**

Successful completion of EFS 207 or instructor's permission.

Additional Fee: \$25.00

58B2 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 216 ADVANCED VOICE EVACUATION FIRES SYSTEMS**

Introduces Advanced Voice Evacuation Fire Alarm Systems as used in high rise applications. Includes comprehensive lessons, lecture, and hands-on practical application, installation, and design. Prerequisites: EFS-211 or Instructor's permission.

Additional Fee: \$25.00

58C2 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 221 FIRE CODES, NICET, NFPA**

Introduces Fire Codes, AHJ (Authority Having Jurisdiction), NICET (National Institute for Certification of Engineering Technologies), and NFPA (National Fire Protection Association). Includes comprehensive lessons, lecture, as well as hands-on practical application, installation, and design. Prerequisites: EFS-216 or Instructor's permission.

Additional Fee: \$25.00

58D2 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 226 HIGH SECURITY STRUCTURED CABLING**

Introduces High Security Structured Cabling in residential and commercial applications. Explores cabling as a total package. Includes most applications of security and low voltage needs. Includes comprehensive lessons, lecture, as well as hands-on practical application, installation, and design. Prerequisites: EFS-221 or Instructor's permission.

Additional Fee: \$25.00

58F2 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

### **EFS 231 CCTV DIGITAL NETWORK SOLUTIONS**

Introduces CCTV (Closed Circuit Television) Digital Network Solutions. Explores applications that require the camera to be recorded and viewed digitally and or remotely via various networks. Includes comprehensive lessons, lecture, as well as hands-on practical application, installation, and design. Prerequisites: EFS-226, or Instructor's permission.

Additional Fee: \$25.00

58G2 7 Cr 7:30AM-3:00PM DAILY 09/26/16-12/16/16 14 213Gordon, James

## **ENGLISH**

### **ENG 082 BASIC READING AND WRITING**

Introduces and develops basic reading and writing skills. Focus in on writing proper sentences and sound paragraphs which express a main idea clearly and fully with a minimum of errors in sentence structure, punctuation and spelling. Coursework emphasizes writing from observation as well as writing in response to

reading. Helps refine comprehension and increase vocabulary for college level reading requirements.

Prerequisite: Appropriate COMPASS (41 in reading, 13 in writing) placement score.

Additional Fee: \$24.50

5W01	5 Cr	8:00AM-8:50AM	MTW	09/26/16-12/16/16	16 116	Mollas, Tula [HYBRID]
5W02	5 Cr	9:00AM-9:50AM	DAILY	09/26/16-12/16/16	16 205	Schwarder, C [HYBRID]
5W03	5 Cr	10:00AM-10:50AM	DAILY	09/26/16-12/16/16	16 205	Schwarder, C [HYBRID]

#### **ENG 094      ADVANCED READING AND WRITING**

Enhances writing ability with emphasis on organization, unity, coherence, and adequate development of short essays. Introduction to various types of paragraphs and essays and review of the rules and conventions of standard written English. Both paper and electronic communication tools will be used. Prerequisite: Appropriate COMPASS (68 in reading, 33 in writing) placement score or successful completion of ENG 082.

5W05	5 Cr	7:30AM-9:50AM	MW	09/26/16-12/16/16	17 230	Stevenson [HYBRID]
5W06	5 Cr	10:00AM-10:50AM	DAILY	09/26/16-12/16/16	17 230	Irwin, Karen [HYBRID]
5W08	5 Cr	1:00PM-1:50PM	DAILY	09/26/16-12/16/16	16 205	Schwarder, C [HYBRID]
5W09	5 Cr	2:00PM-4:20PM	MW	09/26/16-12/16/16	17 230	Heath, Terry [HYBRID]
5W10	5 Cr	6:30PM-8:50PM	MW	09/26/16-12/14/16	16 205	Hoffman-Reye [HYBRID]
5W52	5 Cr	11:00AM-11:50AM	DAILY	09/26/16-12/16/16	17 240	Martindale, K [HYBRID]
5W51	5 Cr	8:00AM-12:30PM	Sa	10/01/16-12/10/16	16 205	Hoffman-Reye [HYBRID]

#### **ENG 104      BUSINESS COMMUNICATIONS**

Review structure, content, and usage as applied to Business correspondence. Emphasis will be placed on writing clear, effective written communication, including memoranda, e-mail, letters, résumés, and feasibility reports. Students will compile a portfolio. Researching and documenting data using electronic databases and the Internet will be required. PREREQUISITE: Appropriate COMPASS (81 in reading, 77 in writing) placement score or successful completion of ENG 094.

~~0529 5 Cr      ARRANGED      09/26/16-12/16/16      ON LINE      Staff [ONLINE]~~

#### **ENGL&101      ENGLISH COMPOSITION I**

Utilize the writing process to write clearly with consideration of audience, purpose, and tone, using standard grammar and punctuation conventions along with common discourse modes and patterns of organization. Read and process sources using independent and critical thinking skills, following established conventions for incorporating and documenting sources in writing.

Prerequisite: COMPASS score of 77 in writing and 81 in reading. Placement score or successful completion of ENG 094.

0519	5 Cr	7:30AM-9:50AM	TTh	09/26/16-12/16/16	17 230	Irwin, Karen [HYBRID]
0520	5 Cr	11:00AM-11:50AM	DAILY	09/26/16-12/16/16	17 230	Prenoveau [HYBRID]
0522	5 Cr	1:00PM-1:50PM	DAILY	09/26/16-12/16/16	17 230	Heath, Terry [HYBRID]
0523	5 Cr	2:00PM-2:50PM	DAILY	09/26/16-12/16/16	16 202	Hoffman-Reyes [HYBRID]
0524	5 Cr	6:30PM-8:50PM	MW	09/26/16-12/14/16	16 205	Hoffman-Reyes [HYBRID]
0526	5 Cr	ARRANGED		09/26/16-12/16/16	ON LINE	Martindale, K [ONLINE]
0527	5 Cr	ARRANGED		09/26/16-12/16/16	ON LINE	Irwin, Karen [ONLINE]
0528	5 Cr	ARRANGED		09/26/16-12/16/16	ON LINE	Heath, Terry [ONLINE]
0530	5 Cr	9:00AM-9:50AM	DAILY	09/26/16-12/16/16	17 240	Martindale, K
0531	5 Cr	9:00AM-9:50AM	DAILY	09/26/16-12/16/16	17 240	Martindale, K [HYBRID]
0532	5 Cr	10:00AM-10:50AM	DAILY	09/26/16-12/16/16	17 240	Martindale, K [HYBRID]
0533	5 Cr	10:00AM-10:50AM	DAILY	09/26/16-12/16/16	17 240	Martindale, K [HYBRID]
0525	5 Cr	8:00AM-12:30PM	Sa	10/01/16-12/10/16	16 205	Hoffman-Reyes [HYBRID]

**ENGL&235 TECHNICAL WRITING**

Focus on simple to complex documents typically required in a technical, professional, or scientific work setting. Use of Plain English emphasized. Prerequisite: Successful completion of ENGL& 101.

~~0571 5 Cr 2:00PM-4:20PM TTh 09/27/16-12/15/16 TBD Heath, Terry [HYBRID] Cancelled~~

**ENVIRONMENTAL SCIENCE****ENV 109 INTRODUCTION TO ECOLOGY**

Covers the basic topics of Ecology, including population biology, plant and animal species characterization, and habitat restoration.

Additional Fee: \$19.60

4562 4 Cr 9:00AM-10:30AM TWThF 09/27/16-12/16/16 16 104Fritz, Andrew [ENHANCED]

**ENV 141 ORIENTATION TO ENVIRONMENTAL SCIENCE**

Survey the wide range of duties and career choices available to the environmental technician.

4572 4 Cr ARRANGED 09/26/16-12/16/16 ON LINE Fritz, Andrew [ONLINE]

**ENV 162 GENERAL CHEMISTRY W/LAB**

This course provides the basic concepts, principles and applications of inorganic chemistry germane to the environmental field. Related instruction includes mathematics used in designing, conducting and interpreting analytical procedures. Laboratory methods, chemical calculations, properties of solutions, and properties of acids and bases are also covered.

Additional Fee: \$55.40

4582 6 Cr 11:00AM-2:00PM TWThF 09/27/16-11/02/16 15 105Fritz, Andrew [ENHANCED]

**ENV 163 ENVIRONMENTAL CHEMISTRY W/LAB**

This is a continuation of ENV 162 General Chemistry with progressive instruction in laboratory methods, chemical calculations, properties of solutions, acids and bases and an introduction to organic chemistry

Additional Fee: \$26.00

4592 6 Cr 11:00AM-2:00PM TWThF 11/03/16-12/16/16 15 105Fritz, Andrew [ENHANCED]

**ENV 231 ISSUES IN THE URBAN ENVIRONMENT**

Course explores a variety of urban environmental issues. Storm water management, sewage treatment, drinking water treatment, and waste disposal. Prerequisite: Successful completion of all ENV 100 -level courses, except ENV 134.

Additional Fee: \$24.50

4502 5 Cr 11:30AM-1:20PM M 10/03/16-12/13/16 16 102Smith Kathy [ENHANCED]

**ENV 240 INTERNSHIP**

All students finishing the program are required to complete an internship. This is a temporary full-time position in the public or private sector where the student gains confidence and experience in a chosen area of employment. Students experience on-the-job opportunities as well as making a skilled contribution to the internship provider. Opportunities to find internships are provided, but the student is in charge of finding his or her own internship. Prerequisite: Successful completion of 4th quarter courses, or Instructor permission.

Additional Fee: \$14.00

4512 10 Cr ARRANGED 09/26/16-12/16/16 ARR Fritz, Andrew

**ENV 245 ENVIRONMENTAL LAW II**

Course places an emphasis on correct, accurate interpretation of environmental regulations and their applications. Students will be able to research, interpret, and utilize a variety of regulations upon completion. Regulations include RCRA, CERCLA, CWA, Washington Drinking Water Rules, Washington State Water Quality regulations, SDWA, and other applicable state, federal and local regulations. Course also covers Federal Energy Policy, including development of fossil fuels and alternative energy sources. Prerequisite: Successful completion of all ENV 100-level courses, except ENV 134.

Additional Fee: \$24.50

4522 5 Cr 11:30AM-1:50PM TW 10/04/16-12/14/16 16 102Smith Kathy [ENHANCED]

**ENV 246 ENVIRONMENTAL SCIENCE CAPSTONE**

This course accompanies ENV 240 Internship. The Capstone Project integrates the CPTC Core Abilities with the Internship and identification of how the Core Abilities apply in the workforce.

4532 2 Cr ARRANGED 09/26/16-12/16/16 ON LINE Smith Kathy [ONLINE]

**ENV 260 INTRODUCTION TO SOILS**

Course focuses on basic physical, biological, and chemical concepts of soil science. Practical exercises and projects will be utilized to demonstrate how soil data is commonly used in regulatory, legal, and scientific land use interpretations and decisions. Prerequisite: Successful completion of all ENV 100-level courses, except ENV 134.

Additional Fee: \$24.50

4542 5 Cr 9:00AM-10:50AM MW 10/03/16-12/14/16 16 102Smith Kathy [ENHANCED]

**ENV 270 HAZARDOUS MATERIAL TRANSPORTATION**

Covers the requirements associated with transportation of hazardous materials as defined in Title 49 Code of Federal Regulations (49CFR) and 171.8 (not including radioactive). Meets the Hazmat Employee training requirements found in 49 CFR 172 Subpart H.

Additional Fee: \$14.70

4552 3 Cr 9:00AM-2:50PM DAILY 09/26/16-09/30/16 16 102Smith Kathy

**ESTHETIC SCIENCES****ES 105 A & P FOR ESTHETICIANS**

A comprehensive survey of the body systems and how they work as they relate to the practice of esthetics. Class projects include eukaryotic cell, cranial puzzle, muscles of the head and neck, and muscle flash cards.

Additional Fee: \$67.00

6202 2 Cr 1:00PM-2:00PM DAILY 09/26/16-12/16/16 02 123Shields, Maureen

**ES 110 HISTOLOGY & PHYSIOLOGY OF THE SKIN**

A comprehensive examination of the epidermis, dermis and hypodermis, including specialty cells and dermal adnexa. Examination of the physiology of the epidermal basement membrane, accessory organs of skin and epidermal differentiation as they relate to the practice of esthetics.

Additional Fee: \$67.00

6212 4 Cr 11:30AM-12:30PM DAILY 09/26/16-12/16/16 02 123Shields, Maureen

**ES 113 INTRODUCTION TO COSMETIC CHEMISTRY**



Fundamentals of chemistry, including differences between organic and inorganic matter, simple chemical reactions, pH for estheticians, and composition of, as well as indications for, commonly used products for esthetic salon services.

Additional Fee: \$67.00

6222 3 Cr 11:00AM-12:00PM DAILY 09/26/16-12/16/16 02 123Shields, Maureen

### **ES 116 CHARTING AND MEDICAL TERMINOLOGY FOR ESTHETICIAN**

Survey of common medical charting notations and terminology employed in medical practice, particularly as they relate to spa, salon, and medical office environments.

Additional Fee: \$81.00

6232 4 Cr 10:30AM-11:30AM DAILY 09/26/16-12/16/16 02 123Shields, Maureen

### **ES 120 SKIN DISEASES AND DISORDERS**

Identify normal skin and anomalies of skin, including primary, secondary, and vascular lesions, as well as irregularities of skin pigmentation. Identification of skin diseases and differentiating from common noncontagious lesions is included.

Additional Fee: \$67.00

6242 5 Cr 8:30AM-9:30AM DAILY 09/26/16-12/16/16 02 123Shields, Maureen

### **ES 123 BACTERIOLOGY, SAFETY, AND SANITATION**

Overview of pathological and non-pathological microorganisms including bacteria, viruses, endo and ecto parasites, disease vectors and transmission. Covers levels of decontaminations pertaining to salons, spas and medical offices.

Additional Fee: \$67.00

6252 4 Cr 7:30AM-8:30AM DAILY 09/26/16-12/16/16 02 123Shields, Maureen

### **ES 125 FACIAL PROCEDURES I**

Introduction to facial procedures, including client intake and assessment, skin analysis, clinical indications and contraindications, European facial instruction, product selections and recommendations.

#### **PREREQUISITES**

Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

CO-REQUISITES: ES 126, ES 130, ES 132, ES 134, ES 137.

Additional Fee: \$67.00

6262 4 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 08 319Whipple

### **ES 128 TEMPORARY HAIR REMOVAL**

Survey of temporary hair removal to include: contraindications, methods of epilation using multiple modalities including but not limited to hard wax, soft wax and sugaring. All related safety and sanitation employed in the esthetics profession.

#### **PREREQUISITES**

Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

#### **CO-REQUISITES**

ES 125, ES 130, ES 132, ES 134, and ES 137.

Additional Fee: \$67.00

6272 5 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 08 319Whipple

### **ES 130 MAKEUP APPLICATION**

History of makeup application. Course includes color theory and basic makeup application techniques.

#### **PREREQUISITES**

Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

**CO-REQUISITES**

ES 125, ES 126, ES 132, ES 134, ES 137.

Additional Fee: \$67.00

6282 2 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 08 319Whipple

**ES 132 SKIN CARE AND BODY TREATMENTS**

Body treatments to include mud wraps, body scrubs, wet and dry room techniques, back treatments, and cellulite body treatments.

**PREREQUISITES**

Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

**CO-REQUISITES**

ES 125, ES 126, ES 130, ES 134, and ES 137.

Additional Fee: \$81.00

6292 4 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 08 319Whipple

**ES 134 MACHINE FACIALS**

Includes indications, contraindications and safety for electrical modalities, including galvanic, high frequency, and microcurrent.

**PREREQUISITES**

Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

**CO-REQUISITES**

ES 125, ES 126, ES 130, ES 132, ES 137.

Additional Fee: \$81.00

62A2 4 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 08 319Whipple

**ES 136 MICRODERMABRASION AND SUPERFICIAL PEELS**

Covers clinical exfoliation and desquamation techniques employing chemical and mechanical methods.

**PREREQUISITES**

Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.

**CO-REQUISITES**

ES 140, ES 141, ES 145, ES 152, ES 159.

Additional Fee: \$81.00

62C2 4 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 325Sorensen, Karlee

**ES 137 SPA CLINIC OPERATIONS**

Realistic training in our student run clinic incorporating point of sale, dispensary, laundry, spa and clinical operations and management positions are covered.

**PREREQUISITES**

Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

**CO-REQUISITES**

ES 125, ES 126, ES 130, ES 132, and ES 134.

Additional Fee: \$67.00

62B2 1 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 08 319Whipple

**ES 140 CLINICAL APPLICATIONS I**

Realistic training in our student-run clinic incorporating every aspect of an exemplar esthetics practice.

**PREREQUISITES**

Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.

## CO-REQUISITES

ES 136, ES 141, ES 145, ES 152, and ES 159.

Additional Fee: \$81.00

62D2 7 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 325Sorensen, Karlee

## ES 150 MEDIUM DEPTH PEELS

Didactic and hands on applications of clinical-based medium depth peels. Course includes all related safety and first aid measures.

### PREREQUISITES

Successful completion of ES 136, ES 140, ES 141, ES 145, ES 152, and ES 159.

### CO-REQUISITES

ES 149, ES 153, ES 154, ES 157, and ES 158.

Additional Fee: \$67.00

62L2 3 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 327Siedlicki, M

## ES 152 PHARMACOLOGY FOR ESTHETICIANS

This course includes common medications and drug interactions as they pertain to esthetic skin-care services.

### PREREQUISITES

Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.

### CO-REQUISITES

ES 136, ES 140, ES 141, ES 145, and ES 159.

Additional Fee: \$67.00

62Q2 1 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 325Sorensen, Karlee

## ES 154 ADVANCED SKIN CARE AND MASSAGE TECHNIQUES

This course includes advanced modalities of skin care including MLD and other industry-related techniques.

### PREREQUISITES

Successful completion of ES 136, ES 140, ES 143, ES 146, ES 152, and ES 159.

### CO-REQUISITES

ES 158, ES 149, ES 150, ES 155, ES 157.

Additional Fee: \$67.00

62G2 5 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 325Siedlicki, M

## ES 157 BUSINESS PLANNING

Independent research and preparation of a business plan and portfolio as capstone project.

### PREREQUISITES

Successful completion of ES 136, ES 140, ES 141, ES 145, ES 152, and ES 159.

### CO-REQUISITES

ES 149, ES 150, ES 153, ES 154, and ES 158.

Additional Fee: \$67.00

62N2 2 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 327Siedlicki, M

## ES 158 STATE BOARD PREPARATION

This course includes kit preparation and simulation of state board examinations.

### PREREQUISITES

Successful completion of ES 136, ES 140, ES 141, ES 145, ES 152, and ES 159.

### CO-REQUISITES

ES 149, ES 150, ES 153, ES 154, and ES 157.

Additional Fee: \$67.00

62P2 2 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 327Siedlicki, M

### **ES 159 INTRO TO BUSINESS PLANNING & PROFESSIONAL DEVELOPMENT**

This course introduces the learner to outlining business plans by obtaining demographics, researching profit and loss statements and outlining startup costs.

#### **PREREQUISITES**

Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.

#### **CO-REQUISITES**

ES 136, ES 140, ES 141, ES 145, and ES 152.

Additional Fee: \$67.00

62H2 1 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 325Sorensen, Karlee

## **FUNDAMENTAL SKILLS FOR MANUFACTURING AND ENGINEERING CLASSES**

### **FSME 101 WORKSHOP SAFETY**

Covers occupational safety and health for workers in manufacturing and engineering workshop environments.

#### **PREREQUISITES**

Instructor permission.

Fee: 39.70

MQ02 3 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302Chinn, Bradley [HYBRID]

### **FSME 111 QUALITY PRINCIPLES, INSPECTION & TEST**

Provides students with a foundational set of measurement, data analysis, and documentation skills. Teaches students how to interpret manufacturing drawings and schematics, how to take measurements and analyze data, and introduces quality principles and terminology used in industry.

#### **PREREQUISITES**

Instructor permission.

Fee: 49.50

MQ12 5 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302Chinn, Bradley

### **FSME 112 FABRICATION FUNDAMENTALS I**

Teaches students the basic workshop skills needed to fabricate parts and structures. Also introduces students to the properties of common materials used in manufacturing and engineering.

#### **PREREQUISITES**

Instructor permission.

Fee: 49.50

MQ22 5 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302Chinn, Bradley

### **FSME 113 FABRICATION FUNDAMENTALS II**

Introduces students to more advanced manufacturing and engineering fabrication techniques, including welding, the use of machine tools, composites, and electrical wiring.

#### **PREREQUISITES**

Instructor permission.

Fee: 49.50

MQ32 5 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302Chinn, Bradley

## **GRAPHIC TECHNOLOGIES**

### **GTC 110 ART, DESIGN, AND VISUAL THINKING**

Introduction to visual arts and design principles. Stresses the components of visual thinking and visual language underlying design for digital media. A series of real-life case studies and exercises applies the design process and use of basic elements of design, typography, images, color, and layout.

Additional Fee: \$88.50

8502 5 Cr 9:00AM-5:00PM Th 09/29/16-12/15/16 11 158Owens, Darryl

### **GTC 123 MACINTOSH OPERATION AND IMAGE ACQUISITION**

Introduction to Macintosh computer operations and file management. Covers image acquisition and archiving from Internet and analog sources.

Additional Fee: \$88.50

8512 5 Cr 9:00AM-5:00PM M 09/26/16-12/12/16 11 154Ritzen, Drew

### **GTC 130 DIGITAL IMAGING I**

Introduces the fundamentals of Photoshop to include basic tools; image editing; painting; and the creation, use, and management of layers and channels.

Additional Fee: \$88.50

8522 5 Cr 9:00AM-5:00PM W 09/28/16-12/14/16 11 154Ritzen, Drew

### **GTC 143 ELECTRONIC PUBLISHING AND LAYOUT**

Apply typographic terms, vocabulary, and concepts; examine type identification and explore the relationships or essence of typographic design. Apply and solve mathematical problems common to typography. Apply basic page layout and create files. Explore proofreading and correcting copy changes.

Additional Fee: \$88.50

8532 5 Cr 9:00AM-5:00PM T 09/27/16-12/13/16 11 158Owens, Darryl

### **GTC 209 ADVANCED VECTOR DIGITAL ILLUSTRATION**

Perform advanced techniques using Adobe Illustrator; create documents using Color Swatches and color separations for a variety of projects. Explore the abilities of different tools/Panels, Effects and filters, Integrate Adobe Acrobat Pro as soft proofing software from within Illustrator and prepare files for electronic output ready for a service provider. Prerequisite: GTC 169 or Instructor Approval.

Additional Fee: \$88.50

8542 5 Cr 9:00AM-5:00PM M 09/26/16-12/12/16 11 158Owens, Darryl

### **GTC 210 DIGITAL IMAGING III**

Building on a solid knowledge of PhotoShop's basic functions, this course explores advanced color theory and utilization of PhotoShop for color correction. Efficient use of layers, masks, and channels for photo retouching and special effects. Optimization for production, importing, and exporting of images is also included.

Prerequisite: GTC 154 or Instructor approval.

Additional Fee: \$88.50

8552 5 Cr 9:00AM-5:00PM T 09/27/16-12/13/16 11 154Moyer, John

### **GTC 223 PREPRESS II**

Covers the digital production of printing jobs through the use of Adobe PDF and raster image processing.

Prerequisite: GTC 164 or Instructor approval.

Additional Fee: \$88.50

8562 5 Cr 9:00AM-5:00PM Th 09/29/16-12/15/16 11 154Moyer, John

**GTC 260 WEB ANIMATION DESIGN**

Offers experience using industry-standard tools for basic web animation. Students will develop familiarity with a timeline, layers, symbols, vector tools and introductory animation techniques.

**PREREQUISITES**

Successful completion of GTC 276 or instructor approval.

Additional Fee: \$88.50

85A2 5 Cr 9:00AM-5:00PM F 09/30/16-12/16/16 11 107Webster, Mark

**GTC 265 WEB PROGRAMMING BASICS**

Apply basic programming and graphical user-interface techniques for developing effective and useful websites. Become familiar with current HTML code syntax and CSS code for styling. Through progressive enhancement of skills, students will build multipage websites, culminating in a personal portfolio website.

**PREREQUISITES**

Successful completion of GTC 276 or instructor approval.

Additional Fee: \$88.50

85B2 5 Cr 9:00AM-5:00PM T 09/27/16-12/13/16 11 107Webster, Mark

**GTC 273 WEB GRAPHIC DESIGN AND USER EXPERIENCE**

Learn techniques and best practices for designing graphics to be used on the web. Build website layout mockups, style guides, and user interface elements using Adobe Photoshop and Illustrator. Using modern design principles create layouts that are both appealing and easy to use.

**PREREQUISITES**

Successful completion of GTC 276 or instructor approval.

Additional Fee: \$88.50

85C2 5 Cr 9:00AM-5:00PM Th 09/29/16-12/15/16 11 107Webster, Mark

**GTC 276 INDESIGN II**

Perform advanced techniques with InDesign, create documents, use color and color separations for a variety of projects, and prepare files for electronic output. Prerequisite: GTC 174 or Instructor approval.

Additional Fee: \$88.50

8572 5 Cr 9:00AM-5:00PM W 09/28/16-12/14/16 11 158Owens, Darryl

**GTC 278 INDEPENDENT STUDY**

This course explores student competency in the student's specialty skills area of the Graphic Technologies program. Students will produce a capstone project showing work accomplished and skills summarized.

Prerequisite: GTC 254 Capstone class or Instructor Approval.

Additional Fee: \$83.60

8582 4 Cr 4:00PM-5:00PM Th 09/29/16-12/15/16 11 154Moyer, John

**GTC 280 INTERNSHIPCLASS**

Provides on-the-job field experience relevant to visual communications. Apply classroom skills to work-related supervised learning experience. Internships may be paid or non-paid assignments and occur at on- or off-campus locations.

**PREREQUISITES**

Successful completion of GTC 254 Capstone class or instructor approval.

Additional Fee: \$83.60

8592 4 Cr ARRANGED 09/26/16-12/16/16 11 158Owens, Darryl

## **HEALTH UNIT COORDINATOR**

### **HUC 106 ANATOMY & PHYSIOLOGY FOR HLTH UNIT COORDINATOR**

Introduces basic word elements that are used in building medical terminology and identifies the different types of word elements present in each medical term by name. Introduces medical terms, body structure, and pathology in relation to each body system: integumentary, musculoskeletal, sensory, circulatory, nervous, endocrine, and digestive systems. Prerequisite: HUC 104

Additional Fee: \$14.70

8112 3 Cr 8:00AM-2:45PM TWTh 09/26/16-12/16/16 21 105Briggs, Marla [HYBRID]

### **HUC 108 ORIENTATION TO HUC**

This course will focus on orientation and introduction to campus policies and rules of conduct. This course will also introduce the student to program policies, dress code, attendance, classroom and workplace rules of conduct, program goals, and grading system. This course also focuses on the use of various communication devices and introduces the EMR/HER and related Windows programs used in the hospital.

Additional Fee: \$99.00

8102 6 Cr 8:00AM-2:45PM DAILY 09/26/16-10/14/16 21 105Briggs, Marla [HYBRID]

### **HUC 112 UNIT COORDINATOR TASKS & PROCEDURES II**

Focuses on cognitive knowledge and performance skills in the computer laboratory. The student will demonstrate performance skills for maintaining medical records, accurately transcribing physicians' orders to the appropriate chart forms and Kardex, as well as completion of pseudo patient charts. Prerequisite: HUC 109: completion of 104, 106, 113, and 120

Additional Fee: \$19.60

8132 4 Cr 3:00PM-9:45PM MThF 09/26/16-12/16/16 21 105Perez, Joylene [HYBRID]

### **HUC 113 INTRODUCTION TO COMMUNICATION IN THE HUC ROLE**

Enables the student to describe and utilize good listening skills as a means of preventing and/or solving conflicts with a variety of people in different situations. The focus also will be to develop skills for the role of the communicator for the nursing unit. The student will also be given the tools for developing and practicing assertive communication, interpersonal relationships, and confidentiality skills. Prerequisite: HUC 104.

Additional Fee: \$4.90

8142 1 Cr 8:00AM-2:45PM DAILY 09/26/16-12/16/16 21 105Briggs, Marla [HYBRID]

### **HUC 114 UNIT COORDINATOR TASKS & PROCEDURES I**

Enables identification of the forms commonly used in the patient's chart. Students will learn to explain the purpose of a patient's chart and recognize the charting responsibilities for each health care team member. Presents instruction and procedures for scheduling appointments by telephone, computer and writing. Also focuses on students' performance in the computer-skill laboratory, demonstrating their cognitive knowledge for maintaining medical records; ordering laboratory and diagnostic exams; accurately transcribing physicians' orders; recognizing treatment orders; ordering nursing supplies; identifying abbreviations, symbols, and terms used in a medication order; and charting information accurately to the appropriate forms and the Kardex for their pseudo patients.

#### **PREREQUISITES**

HUC 108; enrollment in HUC 106.

Additional Fee: \$76.00

8122 7 Cr 8:00AM-2:45PM M 09/26/16-12/16/16 21 105Briggs, Marla [HYBRID]

**HUC 118 ADV COMMUNICATIONS APPLICATIONS IN THE HUC ROLE**

Cover diverse cultures and incorporate the relevant needs of culturally diverse groups in the medical field. Provides the student with an overview and understanding of the fundamentals of communicable diseases. Prerequisite: Successful completion of HUC 102, 106, 109, and 113.

Additional Fee: \$9.80

8152 2 Cr 3:00PM-10:00PM MTTh 09/26/16-12/16/16 21 105Perez, Joylene [HYBRID]

**HUC 120 UNIT MANAGEMENT**

Covers management responsibilities for the nursing unit, including time management and identification of possible fire and safety hazards on the nursing unit. Prerequisite: HUC 104; enrollment in HUC 106, 109, and 113.

Additional Fee: \$14.70

8162 3 Cr 8:00AM-2:45PM W 09/26/16-12/16/16 21 105Briggs, Marla [HYBRID]

**HUC 122 UNIT MANAGEMENT II**

Focus is on cognitive knowledge for managing the nursing unit and developing communication skills using verbal and written communication. The student will develop leadership and performance skills by practicing classroom management. Prerequisites: Completion of HUC 113 and 120

Additional Fee: \$14.70

8172 3 Cr 3:00PM-10:00PM TW 09/26/16-12/16/16 21 105Perez, Joylene [HYBRID]

**HUC 126 LEGAL/ETHICAL ASPECTS OF UNIT COORDINATING**

Enables the student to identify legal elements that are necessary in regard to preparing legal documents, discussing hospital and patient confidentiality, or witnessing signatures on consents for treatment. The ethics of this profession will be explored and how to apply these ethics in professional behaviors. AIDS education, blood-borne pathogens, HIPPA, and hepatitis information will also be covered. Prerequisites: Completion of HUC 102, 106, 109, 113, and 120; enrollment in HUC 112, 118 and 122.

Additional Fee: \$9.80

8182 2 Cr 3:00PM-10:00PM WF 09/26/16-12/16/16 21 105Perez, Joylene [HYBRID]

**HUC 132 CLINICAL EXPERIENCE**

Enables the student to utilize the cognitive and performance objectives that were presented in courses, HUC 102 through 126, in the clinical setting. The focus is on preparation of a résumé, employment application, and an employment interview. In order to participate in the clinical aspect of the program, must receive a No Record on File report from the Washington State Patrol regarding Crimes Against Persons. Clinical hours vary from 6 to 8 hours per day, 4 days a week. Students unable to complete course HUC 132 will have the option of completing clinical rotation with the next available program, on approval from the Instructors, within 6 months. Prerequisite: Completion of HUC 102, 106, 109, 113, 120, 112, 122, and 126.

Additional Fee: \$14.00

8192 7 Cr ARRANGED 09/26/16-12/16/16 21 105Perez, Joylene [HYBRID]

**HUC 204 ECG MONITOR TECHNICIAN**

This course will examine basic cardiac function, normal and abnormal cardiac rhythms, etiology of arrhythmias and interpretation of EKG tracing. Class time will consist of lectures, identifying rhythms and group challenges. This course provides students with an excellent baseline understanding of both simple and more complex rhythms.

81A2 3 Cr 12:00PM-3:00PM TWThF 10/04/16-11/01/16 21 105Perez, Joylene [HYBRID]



## **HEATING/VENTILATION/AIR CONDITIONING**

### **HAC 102 BASIC ELECTRICITY**

Discusses the structure of matter, movement, electrons, conductors, insulators, direct and alternating current, and electrical units of measurement. The electrical circuit will also be studied along with making electrical measurements, Ohm's law, series and Parallel circuits, and electrical power. Magnetic fields, inductance, transformers, capacitance, impedance, sine waves, and using electrical measuring instruments are also included.

Additional Fee: \$49.80

1802 2 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202Barton, Rich [ENHANCED]

### **HAC 105 ELECTRICAL CIRCUITS**

Discusses types of automatic control devices that respond to thermal change, the bimetal device, control by fluid expansion, the thermocouple, and electronic sensing devices. Space temperature controls, (both high and low voltage), sensing temperature of solids, pressure sensing devices, oil pressure safety controls, air pressure controls, devices that control fluid flow, and maintenance of mechanical and electromechanical controls are covered.

Additional Fee: \$59.60

1812 4 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202Barton, Rich [ENHANCED]

### **HAC 120 ADVANCED CONTROLS AND TROUBLESHOOTING**

Control terminology, applications, and electronic control circuits are covered. Pneumatic controls and direct digital controls are also explored, along with programmable thermostats. Also covers procedures for troubleshooting basic and complex circuits, thermostats, and high voltage circuits controlled by thermostats. Describes procedures for measuring amperage and voltage in low voltage circuits and discusses pictorial and line diagrams.

Additional Fee: \$59.60

1822 4 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202Barton, Rich [ENHANCED]

### **HAC 160 SIEMENS CONTROLS**

The DDC training course serves as an introduction to the concepts of direct digital controls. The course is a generic approach to understand DDC terminology and the fundamentals of today's new building control systems. Improve your control of HVAC systems, fire, security, and access, control, lighting, and energy management. The focus is on DDC fundamentals, how they work, features, and troubleshooting.

Additional Fee: \$49.80

1832 2 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202Barton, Rich [ENHANCED]

### **HAC 162 ELECTRIC MOTORS AND THEIR APPLICATIONS**

Types of electric motors are discussed, along with starting and running components and characteristics, motor speeds, and power supplies. Specific topics also included are single and split phase motors, the centrifugal switch, electronic replay, capacitor start motors, capacitors run motors, permanent split capacitor motors, shaded pole motors, and single phase hermetic motors, positive temperature coefficient motors, and variable speed motors. Discussions will take place pertaining to various characteristics and insulations, bearings, mountings, and motor drives.

Additional Fee: \$59.60

1842 4 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202Barton, Rich [ENHANCED]

### **HAC 164 ELECTRIC MOTOR CONTROLS AND TROUBLESHOOTING MOTO**

Discusses mechanical and electrical motor troubleshooting. This includes drive assemblies, belt tension, pulley alignment, open and shorted windings, shorts to ground, capacitor problems, wiring and connectors, and troubleshooting hermetic motors.

Additional Fee: \$54.70

1852 3 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202Barton, Rich [ENHANCED]

### **HAC 167 GREEN AWARENESS**

When it comes to HVAC/R Electrical, "Green" means maximizing the energy efficiency of existing equipment, specifying the most efficient systems available for the application and the available budget using renewable and sustainable fuel sources and conserving water. Those items along with the core knowledge of Energy management and Analysis, Green Heating, Ventilation, Air Conditioning, and Refrigeration, Electrical Generation and Consumption, and "Green" Plumbing will be discussed in the course.

Additional Fee: \$54.70

1862 3 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202Barton, Rich [ENHANCED]

### **HAC 201 ADVANCED REFRIGERATION SYSTEM**

Troubleshoot and repair refrigeration equipment, thermal physics and equipment for refrigeration systems analysis and efficiency.

Additional Fee: \$89.00

18C2 10 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 300Pearce, Don [ENHANCED]

### **HAC 230 EPA REFRIGERANT RECOVERY CERTIFICATION**

Mandatory course designed to provide EPA nationally recognized certification required for purchasing, removing and recycling of refrigerants. The class is a 12-hour training session with the certification test upon completion and is taught by a registered proctor.

Additional Fee: \$48.90

1872 1 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 402McGhee, Dwight [ENHANCED]

### **HAC 237 BASIC REFRIGERATION I**

Introduction to controls, thermal physics, and equipment for air conditioning system installation and servicing. Prerequisites: HAC 101 through 168 and must be registered in HAC 237, 242, 246, and 255.

Additional Fee: \$74.30

1882 7 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 402McGhee, Dwight [ENHANCED]

### **HAC 242 BASIC REFRIGERATION I LAB**

Hands-on experience with introduction to controls, thermal physics, and equipment for air conditioning system installation and servicing. Prerequisites: Must have required hand tools of the trade and must be enrolled in the Basic Refrigeration course.

Additional Fee: \$64.50

1892 5 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 300Pearce, Don [ENHANCED]

### **HAC 246 BASIC REFRIGERATION II**

Introduction to controls, thermal physics, and equipment for air-conditioning system installation and servicing.

Additional Fee: \$69.40

18A2 6 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 402McGhee, Dwight [ENHANCED]

### **HAC 249 JOB READINESS**

Covers résumé writing, cover letter preparation, Internet job search, Work Source job readiness workshop, and tips on filling out job applications.

Additional Fee: \$64.50

18D2 5 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 300Pearce, Don [ENHANCED]

### **HAC 255 BASIC REFRIGERATION II LAB**

Hands-on experience with introduction to controls, thermal physics, and equipment for air conditioning system installation and servicing.

Additional Fee: \$54.70

18B2 3 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 300Pearce, Don [ENHANCED]

### **HAC 256 COMMERCIAL HEAT PUMPS**

Troubleshoot & repair residential and commercial heat pumps through study material and DVD format. Heat pump fundamentals, heat pump electrical, and heat pump charging are explored. Prerequisites: Must be enrolled in HAC 201, 249, 256

Additional Fee: \$74.30

18F2 7 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 300Pearce, Don [ENHANCED]

## **HEMODIALYSIS**

### **HDT 106 DOSAGE CALCULATIONS**

Emphasis on fractions, combined percentages, the metric system, apothecary measurements and conversions, Roman numerals and dosage calculation formulas. Self-paced lab. (For hemodialysis students only).

#### **PREREQUISITES**

COMPASS score of 68 in reading and 33 in writing, or successful completion of ENG 082. COMPASS score of 37 for pre-algebra.

Additional Fee: \$9.80

8842 2 Cr 11:00AM-12:00PM TTh 09/26/16-12/16/16 21 216Markovits, Kelly [ENHANCED]

### **HDT 108 HEALTH INFORMATION TECHNOLOGY IN PATIENT SERVICE**

Covers the issues, trends, and impacts of electronic and networked information technology on health care services in general. Explores specific issues related to the hemodialysis technician profession.

8802 2 Cr 10:00AM-11:00AM TTh 09/26/16-12/16/16 21 216Markovits, Kelly [ENHANCED]

### **HDT 116 COMPUTER APPLICATIONS/KEYBOARDING**

Students will use computers to develop touch control and proper keyboarding and keypad techniques with emphasis on alpha/numeric data entry. Course includes keyboarding alphabetic, figure, symbol keys, and skill building; continued keyboarding drills and practice to develop a minimum speed and accuracy of 25 wpm. Introduction to MS Office Suite for basic business correspondence. Internet navigation will be used for student research projects.

Additional Fee: \$9.80

8812 2 Cr 11:00AM-12:00PM MW 09/26/16-12/16/16 21 216Markovits, Kelly [ENHANCED]

### **HDT 123 HEMODIALYSIS TERMS ANATOMY & PHYSIOLOGY**

Provides the basic techniques of medical word building to be applied in acquiring an extensive medical vocabulary. Introduces anatomical physiological and pathological terms relating to body systems and medical abbreviations. Emphasis on renal and endocrine systems.

Additional Fee: \$9.80

8822 2 Cr 10:00AM-11:00AM MW 09/26/16-12/16/16 21 216 Markovits, Kelly [ENHANCED]

### **HDT 130 HEMODIALYSIS PRINCIPLES & PROCEDURES I**

This course will focus on the renal replacement therapy for persons with end stage renal disease. Identifies normal kidney functions, causes of renal failure, and options for renal replacement therapy, as well as the specific requirements for hemodialysis and the responsibilities of the hemodialysis technician. Preparation of dialysate, dry string and priming the dialysis machine. Also includes Personal Protective Equipment (PPE) and infection control basics.

Additional Fee: \$99.00

8832 5 Cr 8:00AM-10:00AM MTWTh 09/26/16-12/16/16 21 227 Markovits, Kelly [ENHANCED]

## **HUMAN SERVICES**

### **HS 110 COMPUTER APPLICATIONS**

Introduce students to the uses of Microsoft Windows and related programs. Students will become familiar with community resources for career and educational opportunities and will develop proficiency in the use of technology.

#### **PREREQUISITES**

Students must be a high school graduate or have passed a high school equivalency test and have COMPASS scores of 81 for reading and 77 for writing or successful completion of ENG 094. Students must have a COMPASS pre-algebra score of 37 or higher prior to starting the course.

Additional Fee: \$14.70

2402 3 Cr 2:00PM-3:30PM TTh 09/26/16-12/16/16 21 106 Bonner, Lapria [HYBRID]

### **HS 115 THERAPEUTIC COMMUNICATION SKILLS**

Acquaints students with theories and methods of therapeutic communication as well as multicultural communication. Students will demonstrate mastery of theory through classroom activities including mock interviews and work related client interactions.

2462 5 Cr 9:00AM-9:50AM MWF 09/26/16-12/16/16 02 112 Callahan-Mcc [HYBRID]

### **HS 125 HIV, BLOOD-BORN PATHOGENS, BRIEF RISK INTERVENTION FOR THE CHEMICALLY DEPENDENT**

Material will increase student's knowledge of HIV/AIDS & blood borne pathogens. Students will gain knowledge of the history of HIV/AIDS and related issues. The curriculum provides training in the areas of transmission, occupational safety, and standard precautions for the human services professional. Students will utilize the proper screening tools employed by chemical dependency and health agencies in the screening and intake process for higher-risk clientele and the chemically dependent.

#### **PREREQUISITES**

Completion of a terminal degree (A.A., B.A., M.S., etc.), OR student is entering their fourth quarter of the Human Services Associate's degree program.

2422 1 Cr ARRANGED 10/10/16-12/16/16 ON LINE Hauzinger, Irene [ONLINE]

24K2 1 Cr ARRANGED 10/10/16-12/16/16 ON LINE Hauzinger, Irene

### **HS 127 INTRODUCTION TO HUMAN SERVICES**

Introduces students to human services as a profession and will include a historical and philosophical framework of human service delivery. Contemporary roles and the human service worker will be covered, including areas such as typical duties and tasks of human service workers, income, maintenance, children's services, family services, aging, substance abuse, mental health, services for persons with disabilities, and the sociocultural aspects of providing services in a multiculturally diverse society. Students will also examine the competencies and qualifications required to become an effective human service worker, as well as the occupational and educational alternatives for graduates.

2472 5 Cr 10:00AM-12:00PM MWF 09/26/16-12/16/16 02 112Callahan-Mcc [HYBRID]

### **HS 151 INTERNSHIP I**

Students will participate in on-the-job training in the human services field of their choice. Duties and tasks are supervised. Students perform relevant job duties and tasks within their agency of choice, attend supervision meetings, identify community resources that are applicable, and perform other job duties as assigned. Instructor permission is required for site choice.

Instructor permission required.

Additional Fee: \$14.00

2452 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 02 120Callahan-Mcc [HYBRID]

### **HS 220 THEORIES OF COUNSELING**

Increases student knowledge of a variety of counseling theories, theorists and techniques from both a historical and contemporary viewpoint. Students will explore the practical application and appropriate uses of these theories in the human services system.

2442 5 Cr 9:00AM-9:50AM DAILY 09/26/16-12/16/16 02 120Hauzinger, Irene [HYBRID]

### **HS 221 FAMILY SYSTEMS**

Explores the dynamics of healthy and unhealthy family systems in both traditional and alternative families. Students will study a variety of approaches to assist families in managing and coping with the stressors of family life in contemporary society. Introduces family intervention strategies and the development of human service skills to service families.

2482 3 Cr 10:00AM-11:30AM TTh 09/26/16-12/16/16 02 112Callahan-Mcc [ENHANCED]

### **HS 225 SURVEY OF COMMUNITY RESOURCES**

Introduces students to a variety of community based human service agencies through examination of their services, functions, and service populations. The class will participate in field visits, guest lectures and exercises designed to assist them in understanding the relevance of each service component to the whole community, regional and state system.

2492 3 Cr 1:00PM-3:00PM WF 09/26/16-12/16/16 02 112Callahan-Mcc [ENHANCED]

### **HS 227 BEHAVIORAL HEALTH & WELLNESS**

Introduces students to the dimensions of wellness, including physical, emotional, social, and spiritual components. Students explore strategies for personal behavioral health & wellness, including coping strategies, personal boundaries, self-awareness and how to avoid burnout on the job.

2432 5 Cr 10:00AM-11:50AM MWF 09/26/16-12/16/16 02 120Hauzinger, Irene [HYBRID]

### **HS 237 LAW & ETHICS FOR HUMAN SERVICES**

Presents an overview of the ethical and professional issues that human services workers will face in the field. Included are such topics as ethical decision making, professional responsibilities, liability, confidentiality, records and rights of clients, professional codes of ethics, core values and personal issues, supervision, leadership, and the legal system.

2412 3 Cr 10:00AM-11:50AM TTh 09/26/16-12/16/16 02 120Hauzinger, Irene [ENHANCED]

### **HS 238 SPECIAL PROJECTS**

Students will be responsible for formulating and implementing ideas to complete a special project related to the human services field. Students must obtain authorization from the Instructor for the project prior to enrolling in the course.

Instructor permission required.

24C2 Var ARRANGED 09/26/16-12/16/16 ON LINE Callahan-Mcc [ONLINE]

### **HS 239 SELECTED TOPICS**

Students will be responsible for performing either a literature review and/or research on a human services-related topic. Students must obtain authorization from the Instructor for the project prior to enrolling in the course.

Instructor permission required.

24D2 Var ARRANGED 09/26/16-12/16/16 ON LINE Callahan-Mcc [ONLINE]

### **HS 244 INTERNSHIP II**

Students will participate in on-the-job training in the human services field of their choice. Duties and tasks are supervised. Students perform relevant job duties and tasks within their agency of choice, attend supervision meetings, identify community resources that are applicable, and perform other job duties as assigned. Instructor permission is required for site choice. Successful completion of Internship I is required.

Instructor permission required.

Additional Fee: \$14.00

24B2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 02 120Callahan-Mcc [HYBRID]

### **HS 258 INTERNSHIP III**

Students will participate in on-the-job training in the human services field of their choice. Duties and tasks are supervised. Students perform relevant job duties and tasks within their agency of choice, attend supervision meetings, identify community resources that are applicable, and perform other job duties as assigned. Instructor permission is required for site choice. Successful completion of Internship II is required.

Instructor permission required.

Additional Fee: \$14.00

24A2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 02 112Callahan-Mcc [HYBRID]

## **HUMAN SERVICES/CHEMICAL DEPENDENCY**

### **HSCD 134 INTRODUCTION TO ADDICTIONS**

Focuses on substance and behavioral addictions in modern society by surveying prevalent addiction trends and common co-occurring disorders. Students will gain an overview of causal factors and the consequences of addiction as they relate to the individual, family and community. A strengths-based perspective will focus on the biological, psychological and socio-cultural factors influencing addiction and recovery.

#### **PREREQUISITES**

Completion of a terminal degree (A.A., B.A., M.S., etc.), OR student is entering their fourth quarter of the Human Services Associate's degree program.

24G2 5 Cr 5:00PM-7:15PM W 09/28/16-12/14/16 02 112Fitzgerald, C [ENHANCED]

### **HSCD 180 ADDICTIONS TREATMENT: ETHICS AND THE LAW**

This course examines the federal and state laws that pertain to chemical dependency for individuals, families, and service agencies, including the relevant WAC and RCW. Students will be introduced to the local criminal, civil, and juvenile court systems. Core topics include the examination and adherence of the ethical standards for Chemical Dependency Professionals in the helping relationship, including implications for clinical supervision and continuing education. Includes ethical decision-making, professional responsibilities, liability, confidentiality, records and rights of clients, professional codes of ethics, core values and personal issues, supervision, leadership, and the legal system.

#### PREREQUISITES

Completion of a terminal degree (A.A., B.A., M.S., etc.), OR student is entering their fourth quarter of the Human Services Associate's degree program.

24J2 5 Cr ARRANGED 09/28/16-12/14/16 ON LINE Hauzinger, Irene [ONLINE]

#### **HSCD 215 CASE MANAGEMENT & RECORDKEEPING FOR THE CDP**

This course focuses on the basic case management skills of service coordination, referral practices, community services, ongoing evaluation of treatment progress, client needs, and learning documentation standards and applicable laws.

Instructor permission required.

24H2 5 Cr 7:45PM-10:00PM W 09/28/16-12/14/16 02 112Fitzgerald, C [ENHANCED]

## **INTERIOR DESIGN**

#### **DSN 105 DRAFTING I**

This course introduces students to the fundamental skills and concepts necessary for interior design planning and drawing to include: use of drafting tools, exercise in line weight and line type quality, architectural scale, dimensioning and architectural lettering.

Additional Fee: \$79.40

3612 6 Cr 9:00AM-11:00AM DAILY 10/11/16-10/25/16 19 210Houser, Sunny

#### **DSN 119 INTERIOR DESIGN & THE DESIGN PROCESS**

This course will introduce the student to concepts to successfully steer an idea on its journey from imagination to object and to focus on where the idea is going. This introduction describes the nature of a designer's journey, maps the path a designer will take and explore the path of what happens along the way. This course is an introduction to inspiration, conceptualization, communication and elements and principles of design and trendspotting.

Additional Fee: \$69.60

3602 4 Cr 9:00AM-11:00AM DAILY 09/26/16-10/10/16 19 210Bowman, Micheal

#### **DSN 124 COLOR THEORY**

This course is an introduction to the world of color, encompassing the following: The three dimensions of color, color systems, color theory, coloring agents, dimensions of color in compositions, principles and elements of design in color, color interactions, symbolisms, influence of color and exercises of putting color to use.

Additional Fee: \$69.60

3622 4 Cr 9:00AM-11:00AM DAILY 10/26/16-11/18/16 19 210Bowman, Micheal

#### **DSN 136 INTRODUCTION TO DRAWING AND RENDERING**

Introduction to Drawing and Rendering is a beginning look at some of the drawing methods and materials used by Interior Designers. This course begins with the fundamental concepts of freehand sketching and gaining the

ability to think three-dimensionally. It is also an introduction for methods to communicate your design vision through hand drawn renderings. This is shown by the use of shade, shadow, texture, pattern, color and material qualities.

Additional Fee: \$69.60

3632 4 Cr 9:00AM-11:00AM DAILY 11/21/16-12/16/16 19 210Houser, Sunny

### **DSN 145 RESIDENTIAL PLANNING, DESIGN & EXTERIOR SPACES**

Completion of this course will provide students with the understanding of interior space planning basics and concepts using diagrams, residential codes, planning guidelines and presentation techniques. Students will also learn exterior elements and finishes that help to enclose the space. Prerequisites: DSN 105, 121.

Additional Fee: \$74.50

3672 5 Cr 11:00AM-1:00PM DAILY 11/07/16-12/16/16 19 210Houser, Sunny

### **DSN 152 FURNITURE AND CABINET DESIGN**

This course covers the fundamentals of custom furniture and cabinet design. Based on the study of furniture design theory, function, social use, materials and fabrication, students will design a unique custom piece of furniture.

Additional Fee: \$59.80

36B2 2 Cr 9:00AM-11:00AM DAILY 12/05/16-12/16/16 19 202Bowman, Micheal

### **DSN 153 DRAFTING III**

Completion of this course will provide students with an understanding of typical planning dimensions and guidelines for residential interiors, as well as proper techniques to combine cabinetry, appliances and applied measurements for graphic presentation standards. Prerequisites: DSN 121. <Z> This course is a comprehensive overview of the history of interior design and furniture from antiquity to the present day, with special emphasis on design elements.

Additional Fee: \$69.60

3662 4 Cr 11:00AM-1:00PM DAILY 11/07/16-12/16/16 19 210Houser, Sunny

### **DSN 158 HISTORY OF INTERIORS**

A comprehensive overview of art, history of interiors and furniture from antiquity to the present day.

Additional Fee: \$69.60

3652 4 Cr 11:00AM-1:00PM DAILY 10/17/16-11/04/16 19 210Bowman, Micheal

### **DSN 159 INTRODUCTION TO TECHNOLOGY FOR INTERIOR DESIGNERS**

This course covers basic computer skills for interior designers. Contents include computer use for file management and internet research, as well as introductions to SketchUp and Adobe design software for editing and presentation.

Additional Fee: \$64.70

3642 3 Cr 11:00AM-1:00PM DAILY 09/26/16-10/14/16 19 202Watts, Julie

### **DSN 215 SUSTAINABLE DESIGN: AN OVERVIEW**

Explores the history and principles associated with green and sustainable design. This course uncovers how the built environment affects people and the natural environment, environmental movements throughout history, green building assessment methods and certification programs, and the environmental responsibilities associated with the interior design profession.

#### **PREREQUISITES**

Basic competency with computers and navigating the web.



Additional Fee: \$24.50

36C2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Watts, Julie [ONLINE]

**DSN 224 SUSTAINABILITY FOR RESIDENTIAL & COMMERCIAL APP**

Examines sustainable approaches to the built environment including preservation, rehabilitation, restoration, and reconstruction. This course also looks at applying sustainable design elements to residential and a variety of commercial project types.

**PREREQUISITES**

It is recommended to have completed or be concurrently enrolled in DSN 215 Sustainable Design: An Overview. Basic competency with computers and navigating the web.

Additional Fee: \$19.60

36D2 4 Cr ARRANGED 09/26/16-12/16/16 ON LINE Watts, Julie [ONLINE]

**DSN 226 SUSTAINABLE STRATEGIES IN DESIGN**

Introduces sustainable strategies for the integrated interior environment, including identifying materials, products, lighting systems, and building components that embody the principles of sustainability.

**PREREQUISITES**

It is recommended to have completed or be concurrently enrolled in DSN 215 Sustainable Design: An Overview. Basic competency with computers and navigating the web.

Additional Fee: \$24.50

36F2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Watts, Julie [ONLINE]

**DSN 227 COMMERCIAL SPECIFICATIONS**

This course covers general notes used within construction documents, the specification of products, fabrication, and applications for commercial interior design. It also covers the liabilities of the designer in regard to specification writing for codes, standards, and federal regulations which are an essential part of designing building interiors. Prerequisites: DSN 225.

Additional Fee: \$69.60

3682 4 Cr 9:00AM-11:00AM DAILY 09/26/16-10/07/16 19 202Houser, Sunny

**DSN 229 SUSTAINABLE INTERIORS & THE INTEGRATED DESIGN PROCESS**

Covers the steps to design and present a green interior space. Students will learn more about the integrated design process, develop their own sustainable interior design, and present it in a professional manner in preparation for real-life sustainable design proposals.

**PREREQUISITES**

Completed or concurrently enrolled in DSN 215, 224, 226. Basic competency with computers and navigating the web.

36G2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Watts, Julie [ONLINE]

**DSN 236 DESIGN II**

Through site visits, research and building plans, the student will develop and present a space plan and design concept for a renovation project of commercial nature, utilizing an existing space as a model. Students will also be introduced to building code topics such as occupant load, means of egress and emergency lighting and signage. Upon completion of the project, students will give a verbal and visual presentation of their design concept. Prerequisites: DSN 225.

Additional Fee: \$84.30

36A2 7 Cr 9:00AM-11:00AM DAILY 10/31/16-12/02/16 19 202Watts, Julie

**DSN 239 CAD II**

This course includes the intermediate level use of 2-dimensional CAD (computer aided drafting). To develop increased knowledge, speed, and accuracy, following demonstration and in class exercises, the student will use AutoCAD software to develop advanced layouts in paper space. Prerequisites: DSN 216.

Additional Fee: \$74.50

3692 5 Cr 9:00AM-11:00AM DAILY 10/10/16-10/27/16 19 202Watts, Julie

### **DSN 265 INDEPENDENT STUDY**

Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, the student will select a meaningful project within an area of interest to strengthen their range of abilities. The student will fulfill several pre-approved objectives at the conclusion of the course where they will complete a self-assessment and final presentation to the instructor. Prerequisite: Instructor Approval.

Additional Fee: \$64.70

36H2 3 Cr ARRANGED 09/26/16-12/16/16 19 210Houser, Sunny

### **DSN 270 INDEPENDENT STUDY**

Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, the student will select a meaningful project within an area of interest to strengthen their range of abilities. The student will fulfill several pre-approved objectives at the conclusion of the course where they will complete a self-assessment and final presentation to the instructor. Prerequisite: Instructor Approval.

Additional Fee: \$69.60

36J2 4 Cr ARRANGED 09/26/16-12/16/16 19 210Bowman, Micheal

### **DSN 275 INDEPENDENT STUDY**

Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, the student will select a meaningful project within an area of interest to strengthen their range of abilities. The student will fulfill several pre-approved objectives at the conclusion of the course where they will complete a self-assessment and final presentation to the instructor. Prerequisite: Instructor Approval.

Additional Fee: \$74.50

36K2 5 Cr ARRANGED 09/26/16-12/16/16 19 210Bowman, Micheal

## **LEADERSHIP**

### **LEADR100 LEADERSHIP I**

Students taking this course will gain a basic understanding of the concept of leadership theory while developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership and to develop and improve their own leadership skills. This course integrates leadership studies through study, observation and application. Instructor permission required.

0565 Var ARRANGED 09/26/16-12/16/16 ON LINE Erwin-Svobod [ONLINE]

### **LEADR101 LEADERSHIP II**

Students taking this course will gain a basic understanding of the concept of leadership theory while developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership and to develop and improve their own leadership skills. This course integrates leadership studies through study, observation and application. Instructor permission required.

0566 Var ARRANGED 09/25/16-12/16/16 ON LINE Erwin-Svobod [ONLINE]

### **LEADR102 LEADERSHIP III**

Students taking this course will gain a basic understanding of the concept of leadership theory while developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership and to develop and improve their own leadership skills. This course integrates leadership studies through study, observation and application. Instructor permission required.

0567 Var ARRANGED 09/26/16-12/16/16 ON LINE Erwin-Svobod [ONLINE]

### **LEADR103 LEADERSHIP IV**

Students taking this course will gain a basic understanding of the concept of leadership theory while developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership and to develop and improve their own leadership skills. This course integrates leadership studies through study, observation and application. Instructor permission required.

0568 Var ARRANGED 09/26/16-12/16/16 ON LINE Erwin-Svobod [ONLINE]

## **MANUFACTURING TECHNOLOGIES**

### **MCH 101 SHOP SAFETY**

Provides an overview of the program, orientation to shop procedures, and the responsibilities associated with personal safety and the safety of others. Prerequisite: Instructor's permission.

Additional Fee: \$48.80

7802 2 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 105 SHOP MATH/BLEUPRINT**

Provides a review of basic arithmetic using addition, subtraction, fractions, and decimal fractions. Study of drawings and prints, and an overview of basic measuring tools. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$68.40

7812 6 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 107 SHOP MATH/BLEUPRINT II**

Provides study of basic geometry concepts and introduction to calculators. Advanced study of prints and reading of machine details. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$68.40

7822 6 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 109 SHOP MATH/BLEUPRINT III**

An introduction to trigonometric functions, practical machine mathematical applications, the Cartesian coordinate system, geometric dimensioning, and tolerancing. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$68.40

7832 6 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 111 SHOP MACHINE AND TOOLS**

Use and care of hand and machine tools used in measurement, layout, and inspection. Beginning machine tool operation of pedestal grinders, drill presses, and power saws. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$68.40

7842 6 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 117 LATHES I**

Progressively difficult operations on lathes with emphasis on setups, speeds, feeds, turning, facing, grooving, threading and tapers. Actual turning jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$39.00

7852 6 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 121 SAFETY IN THE WORKPLACE**

Progressively difficult operations on milling machines, with emphasis on setups, speeds, feeds, end milling, side milling, shell milling, drilling, and tapping. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$68.40

7862 6 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 122 LATHES & MILLS II**

Intermediate calculations and machining operations with emphasis on accessories for lathes and milling machines. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$78.20

7872 8 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 125 LATHES & MILLS III**

Progressively advanced turning and milling techniques with emphasis placed on precision setup using geometric dimensioning and tolerancing. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$88.00

7882 10 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 126 LATHES & MILLS IV**

Progressively advanced turning and milling techniques with emphasis placed on the use of all shop equipment to complete advanced precision projects. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$78.20

7892 8 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 129 SURFACE GRINDING**

Progressively difficult grinding operations with emphasis on surface grinding, mounting, dressing, and truing grinding machine wheels. Prerequisite: Instructor's permission and MCH 101

Additional Fee: \$58.60

78A2 4 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 133 TOOL & CUTTER GRINDER**

Progressively difficult tool and cutter grinding with emphasis on milling cutters, reamers, and form tools. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$63.50

78B2 5 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 201 CATIA I**

Gain introductory knowledge of 3D and parametric design using CATIA V5 software to create basic parts and assemblies in solids and wireframe.

PREREQUISITES

Instructor permission required.

Additional Fee: \$63.50

78C2 5 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 202 INTRODUCTION TO CNC**

Introduction to CNC programming software and setups using CAD/CAM interfacing and project milling, drilling, and lathe turning. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$73.30

78D2 7 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 203 CATIA II**

Build upon modeling and parametric design using CATIA V5 software to apply graphic skills to create parts, assemblies and profiles in solids and wireframe.

PREREQUISITES

Instructor permission required.

Additional Fee: \$53.70

78F2 3 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 206 CATIA III**

Apply more advanced modeling and parametric design using CATIA V5 software to create complex parts and assemblies in solids and wireframes.

PREREQUISITES

Instructor permission required.

Additional Fee: \$53.70

78G2 3 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 211 MEASUREMENT INSPECTION & EQUIPMENT**

Understanding and operating Computer Numerical Control (CNC) machinery. Writing programs and manual data input. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$88.00

78H2 10 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 216 ADVANCED CNC**

Progressively advanced CNC machining techniques with emphasis placed on program troubleshooting, and increased production. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$97.80

78J2 12 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

### **MCH 219 CAREER OPPORTUNITIES**

Resumes, researching employers, and job search techniques. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$58.60

78K2 4 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

**MCH 223 INSPECTION TECHNIQUES**

Proper use of inspection tools and equipment. Emphasis is on applied use of geometric dimensioning and tolerancing, with use of granite layout surfaces. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$68.40

78L2 6 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

**MCH 229 METALLURGY & HEAT TREATMENT**

Provides insight into the study of the properties and compositions of metals. Emphasis is on heat treatment of metals. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$58.60

78M2 4 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

**MCH 231 MANUFACTURING RESOURCES & RESEARCH**

Study of resources for machining information with emphasis on methods of research. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: \$58.60

78N2 4 Cr ARRANGED 09/26/16-12/16/16 25 105Dam, Ken [HYBRID]

**MCH 240 TRAINING AND PRACTICE**

This course provides special instruction to suit the individual's needs. Repeated enrollment ensures progressively advanced training. The number of times one may enroll is based on the student's needs, at the instructor's advisement. PREREQUISITE: MCH 101 and Instructor's permission.

Additional Fee: \$88.00

78P2 Var ARRANGED 09/26/16-12/16/16 25 105Dam, Ken

**MASSAGE****MASST110 ANATOMY PHYSIOLOGY AND PATHOLOGY I**

Introduces the student to anatomy and physiology, cytology, integumentary, osteology, mycology, and nervous system.

Additional Fee: \$73.00

1202 5 Cr 9:00AM-11:30AM TTh 09/27/16-12/13/16 08 108Slegers, Edward

**MASST112 SWEDISH MASSAGE THEORY**

Introduces students to the history, application and principles of Swedish massage. This includes not only the massage strokes, but also client safety, communication, and charting of results.

**PREREQUISITES**

Students will have submitted a medical statement of health from a primary care provider verifying their ability to safely participate in all aspects of the program prior to admission.

**CO-REQUISITES**

MASST 112 must be taken concurrently with MASST 120.

Additional Fee: \$73.00

12B2 4 Cr 9:00AM-11:30AM MW 09/26/16-12/14/16 08 108Meziere, Yvonne

**MASST116 COMPLEMENTARY MASSAGE MODALITIES I**

Introduces the student to a variety of massage modalities that can be safely integrated into a massage practice. Modalities covered include fascial techniques, acupressure, seated massage and side-lying. Indications, contraindications and treatment modifications will be identified. Prerequisite: Successful completion of MASST 114 and MASST 117.

Additional Fee: \$108.00

1212 3 Cr 12:15PM-3:30PM F 09/30/16-12/16/16 08 108Meziere, Yvonne

### **MASST120 SWEDISH MASSAGE PRACTICE**

Students will apply knowledge and techniques taught in Swedish Massage Theory. This class prepares students to practice safe, relaxing, therapeutic and effective Swedish massage. In addition to proper use and application of Swedish massage strokes, students will also practice proper self-care techniques and learn how to care for their equipment.

CO-REQUISITES

MASST 120 must be taken concurrently with MASST 112.

Additional Fee: \$73.00

12C2 4 Cr 12:30PM-3:30PM MW 09/26/16-12/14/16 08 305Meziere, Yvonne

### **MASST126 KINESIOLOGY: UPPER EXTREMITY**

Introduces students to the study of movement. Presents the beginning principles and skills for locating and identifying bony landmarks and muscles of the upper extremity using palpation techniques, movement, and anatomical terminology.

Additional Fee: \$73.00

1222 2 Cr 12:15PM-3:30PM TTh 09/27/16-11/17/16 08 108Meziere, Yvonne

### **MASST130 KINESIOLOGY: TRUNK AND MODALITIES I**

Continue the study of movement. Builds upon the principles and skills for locating and identifying bony landmarks and muscles of the trunk using palpation techniques, movement, and anatomical terminology. Prerequisite:

Successful completion of MASST 126

Additional Fee: \$108.00

1232 1 Cr 12:15PM-3:30PM TTh 11/22/16-12/15/16 08 108Meziere, Yvonne

### **MASST133 DEEP TISSUE MASSAGE THEORY**

Introduces the student to a variety of massage treatment techniques, providing ground work for clinical massage applications. Indications, contraindications, and treatment modifications will be identified and discussed.

Prerequisite: Successful completion of MASST 114 and MASST 117. MASST 133 must be taken concurrently with MASST 134.

Additional Fee: \$73.00

1242 4 Cr 5:30PM-7:15PM MWF 09/26/16-12/16/16 08 305Priest, Jason

### **MASST134 DEEP TISSUE MASSAGE PRACTICE**

Building on the massage techniques learned in Swedish massage theory and practice, students become proficient in a variety of deep tissue techniques. Prerequisite: Completion of MASST 114 and MASST 117. MASST 134 must be taken concurrently with MASST 133

Additional Fee: \$73.00

1252 4 Cr 7:15PM-10:20PM MWF 09/26/16-12/16/16 08 305Priest, Jason

### **MASST137 KINESIOLOGY: HEAD AND NECK**

Continues the study of movement while building upon the principles and skills for locating and identifying bony landmarks and muscles of the head and neck using palpation techniques, movement, and anatomical terminology. Prerequisite: Successful completion of MASST 126.

Additional Fee: \$108.00

1262 1 Cr 7:00PM-9:45PM TTh 09/27/16-10/18/16 08 108Priest, Jason

**MASST143      MESSAGE BUSINESS & ETHICS I**

Introduces important business knowledge, skills, and professional ethics vital to the successful practice of massage therapy after licensure. Learn and follow professional ethics as related to massage and learn and practice universal safety precautions, utilize and understand common medical terms, research the different avenues of employment available, and begin the process of building a successful massage business.

Additional Fee: \$73.00

1272 2 Cr 9:00AM-11:30AM F 09/30/16-12/16/16 08 108Meziere, Yvonne

**MASST144      MESSAGE BUSINESS AND ETHICS II**

Learn and demonstrate a variety of successful business strategies from marketing to record keeping in addition to becoming knowledgeable regarding state and local laws that govern massage therapy in Washington State.

Prerequisite: Successful completion of MASST 143.

Additional Fee: \$73.00

1282 2 Cr 5:30PM-7:00PM TTh 09/27/16-12/13/16 08 108Priest, Jason

**MASST146      KINESIOLOGY: LOWER EXTREMITY**

Continue the study of movement. This course builds upon the principles and skills for locating and identifying bony landmarks and muscles of the lower extremity using palpation techniques, movement, and anatomical terminology. Prerequisite: Successful completion of MASST 126.

Additional Fee: \$108.00

1292 2 Cr 7:00PM-9:45PM TTh 11/22/16-12/15/16 08 108Priest, Jason

**MASST162      MESSAGE CLINIC I**

Gain first-hand knowledge and experience by running a massage clinic. In addition to providing relaxation and deep tissue massage, each student will also have an opportunity to experience the more administrative positions in a clinic by rotating through the positions of receptionist, cashier, and scheduling manager. Prerequisite: Successful completion of MASST 114 and MASST 117. Student must have current First Aid/CPR certification, as well as having completed a minimum of four hours HIV-AIDS training, and a report from the Washington State Patrol. Some results from the background check may prevent individuals from participating in the Student Clinic.

Additional Fee: \$87.00

12A2 2 Cr 5:30PM-9:45PM W 11/02/16-12/14/16 08 305Priest, Jason

**MATH****MAT 082      BASIC MATHEMATICS**

Covers basic operations with whole numbers, fractions, decimals, percentages, ratios and proportions, signed numbers, algebraic expressions, linear equations, order of operations, basic geometry, units of measurement, and introduction to statistics.

**PREREQUISITES**

COMPASS pre-algebra 30 or higher or successful completion of MAT 060 is required.

5W11 5 Cr 8:00AM-8:50AM DAILY 09/26/16-12/16/16 16 202Sandoval, L [ENHANCED]

5W12 5 Cr 9:00AM-9:50AM DAILY 09/26/16-12/16/16 16 202Sandoval, L [ENHANCED]

5W13 5 Cr 11:00AM-11:50AM MTW 09/26/16-12/16/16 16 116Mollas, Tula [HYBRID]

5W14 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Mollas, Tula [ONLINE]

~~5W15 5 Cr 2:00PM-2:50PM DAILY 09/26/16-12/16/16 16 113Herring, Bill [ENHANCED]~~

5W21 5 Cr 8:00AM-10:00AM MW 09/26/16-12/16/16 16 208Schmeling, L [ENHANCED]



5W27	5 Cr	10:00AM-10:50AM	DAILY	09/26/16-12/16/16	16 113	Alexander, Di [ENHANCED]
5W30	5 Cr	11:00AM-11:50AM	DAILY	09/26/16-12/16/16	16 202	Sandoval, L [ENHANCED]
5W33	5 Cr	1:00PM-1:50PM	DAILY	09/26/16-12/16/16	16 113	Sandoval, L [ENHANCED]
5W39	5 Cr	3:00PM-3:50PM	DAILY	09/26/16-12/16/16	16 113	Herring, Bill [ENHANCED]
5W42	5 Cr	4:00PM-6:30PM	MW	09/26/16-12/14/16	15 111	Parnell, Sam [ENHANCED]
5W24	5 Cr	9:10AM-10:50AM	TWTh	09/27/16-12/15/16	15 111	Parnell, Sam [ENHANCED]
5W36	5 Cr	1:30PM-4:00PM	TTh	09/27/16-12/15/16	SHC107	Alexander, Di [ENHANCED]
5W45	5 Cr	6:30PM-9:00PM	TTh	09/27/16-12/15/16	15 111	Alexander, Di [ENHANCED]
5W48	5 Cr	9:00AM-2:30PM	Sa	10/01/16-12/10/16	15 111	Parnell, Sam [ENHANCED]

### **MAT 091 INTRODUCTION TO ALGEBRA**

Develops algebraic topics including algebraic expressions, solving linear equations and inequalities, coordinate graphing, systems of equations, polynomials, factoring and introduction to rational expressions. PREREQUISITES COMPASS algebra score of 32 or successful completion of MAT 082 is required.

Additional Fee: \$24.50

5W16	5 Cr	10:00AM-10:50AM	MTW	09/26/16-12/16/16	16 116	Mollas, Tula [HYBRID]
5W17	5 Cr	11:00AM-11:50AM	DAILY	09/26/16-12/16/16	16 113	Alexander, Di [ENHANCED]
5W18	5 Cr	3:00PM-3:50PM	DAILY	09/26/16-12/16/16	15 111	Parnell, Sam [HYBRID]
5W19	5 Cr	ARRANGED		09/26/16-12/16/16	ON LINE	Sandoval, L [ONLINE]
5W22	5 Cr	8:00AM-10:00AM	MW	09/26/16-12/16/16	16 208	Schmeling, L [ENHANCED]
5W28	5 Cr	10:00AM-10:50AM	DAILY	09/26/16-12/16/16	16 113	Alexander, Di [ENHANCED]
5W31	5 Cr	11:00AM-11:50AM	DAILY	09/26/16-12/16/16	16 202	Sandoval, L [ENHANCED]
5W34	5 Cr	1:00PM-1:50PM	DAILY	09/26/16-12/16/16	16 113	Sandoval, L [ENHANCED]
5W40	5 Cr	3:00PM-3:50PM	DAILY	09/26/16-12/16/16	16 113	Herring, Bill [ENHANCED]
5W43	5 Cr	4:00PM-6:30PM	MW	09/26/16-12/14/16	15 111	Parnell, Sam [ENHANCED]
5W25	5 Cr	9:10AM-10:50AM	TWTh	09/27/16-12/15/16	15 111	Parnell, Sam [ENHANCED]
5W37	5 Cr	1:30PM-4:00PM	TTh	09/27/16-12/15/16	SHC107	Alexander, Di [ENHANCED]
5W46	5 Cr	6:30PM-9:00PM	TTh	09/27/16-12/15/16	15 111	Alexander, Di [ENHANCED]
5W49	5 Cr	9:00AM-2:30PM	Sa	10/01/16-12/10/16	15 111	Parnell, Sam [ENHANCED]

### **MAT 099 INTERMEDIATE ALGEBRA**

Expands on algebraic topics including solving equations and inequalities, graphing of linear and nonlinear equations, and rational expressions. Develops topics including roots and radicals; solving absolute value equations and inequalities; solving quadratic, exponential and logarithmic equations; and introduction to functions. PREREQUISITES

COMPASS algebra score of 62 or college algebra score of 40 or above or successful completion of MAT 091.

5W20	5 Cr	ARRANGED		09/26/16-12/16/16	ON LINE	Schmeling, L [ONLINE]
5W23	5 Cr	8:00AM-10:00AM	MW	09/26/16-12/16/16	16 208	Schmeling, L [ENHANCED]
5W29	5 Cr	10:00AM-10:50AM	DAILY	09/26/16-12/16/16	16 113	Alexander, Di [ENHANCED]
5W32	5 Cr	11:00AM-11:50AM	DAILY	09/26/16-12/16/16	16 202	Sandoval, L [ENHANCED]
5W35	5 Cr	1:00PM-1:50PM	DAILY	09/26/16-12/16/16	16 113	Sandoval, L [ENHANCED]
5W41	5 Cr	3:00PM-3:50PM	DAILY	09/26/16-12/16/16	16 113	Herring, Bill [ENHANCED]
5W44	5 Cr	4:00PM-6:30PM	MW	09/26/16-12/14/16	15 111	Parnell, Sam [ENHANCED]
5W26	5 Cr	9:10AM-10:50AM	TWTh	09/27/16-12/15/16	15 111	Parnell, Sam [ENHANCED]
5W38	5 Cr	1:30PM-4:00PM	TTh	09/27/16-12/15/16	SHC107	Alexander, Di [ENHANCED]
5W47	5 Cr	6:30PM-9:00PM	TTh	09/27/16-12/15/16	15 111	Alexander, Di [ENHANCED]
5W50	5 Cr	9:00AM-2:30PM	Sa	10/01/16-12/10/16	15 111	Parnell, Sam [ENHANCED]

**MAT 103 BUSINESS MATHEMATICS**

Develops elements of algebra applied to percentages, markup and markdown, discounts, payroll, and simple and compound interest. Scientific calculator required.

**PREREQUISITES**

COMPASS algebra score of 62 or college algebra score of 40 or above or successful completion of MAT 088 or MAT 091.

0534 5 Cr 8:00AM-8:50AM DAILY 09/26/16-12/16/16 14 208 Sweerus, Neil [ENHANCED]

0535 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Sweerus, Neil [ONLINE]

**MAT 105 MAT 105 MATH FOR INDUSTRIAL PROFESSIONS**

Develops elements of algebra, geometry, metric measure, and trigonometry to calculate areas, volumes and angles for polygonal objects, objects with smooth curves, and composite objects, with applications to material strength tapers, pulleys, gears, screw threads and elementary engines. Scientific Calculator required.

PREREQUISITE: Appropriate COMPASS score or successful completion of **MAT 088** or MAT 91 is required.

0536 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Gangaram, Jit [ONLINE]

0537 5 Cr 10:00AM-10:50AM **MWTh** 09/26/16-12/16/16 14 208 **Oyler, Mel** [ENHANCED]

**MAT 108 MATH FOR HEALTH OCCUPATIONS**

Covers solutions to linear equations and quadratic equations with real roots, formulas; U.S., metric and apothecary measurement; calculation of dosages and intravenous fluid infusions; solutions and dilutions, logarithms and pH, elementary chemical calculations, and elementary statistics including standard deviation. Scientific calculator required. PREREQUISITE: Appropriate COMPASS score or successful completion of MAT 91 is required.

Additional Fee: \$24.50

0538 5 Cr 10:00AM-12:20PM Sa 09/26/16-12/16/16 16 113 Stultz, Douglas [HYBRID]

0539 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Sweerus, Neil [ONLINE]

0540 5 Cr 10:00AM-10:50AM DAILY 09/26/16-12/16/16 16 202 Sweerus, Neil [HYBRID]

**MAT 110 MATH FOR NON-SCIENCE MAJORS**

Covers a variety of topics including probability, statistics, finance, modeling, sets and counting, and exponential and logarithmic functions. PREREQUISITE: Appropriate COMPASS score or successful completion of MAT 99 is required.

0541 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Oyler, Mel [ONLINE]

**MATH&141 PRE CALCULUS I**

Covers linear, quadratic, polynomial, exponential, logarithmic, and inverse functions and equations; linear and quadratic inequalities, graphs of functions, and graphic transformations. Graphing calculator required.

Prerequisite: Appropriate COMPASS placement score or successful completion of MATH& 99 is required.

Additional Fee: \$24.50

0542 5 Cr 2:00PM-2:50PM MTWTh 09/26/16-12/16/16 16 208 Schmeling, L [HYBRID]

**MATH&142 PRE CALCULUS 2**

Covers circular, trigonometric, and inverse-trigonometric functions and graphs, trigonometric and inverse trigonometric identities, trigonometric equations, vectors and elementary vector operations. Graphing calculator required. Prerequisite: Appropriate COMPASS placement score or successful completion of MATH& 141 or equivalent is required.

0544 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Schmeling, L [ONLINE]

## **MATH&146 INTRODUCTION TO STATISTICS**

Descriptive and inferential statistics, including measures of central tendency, dispersion or variation, and skewness. The student is introduced to basic concepts in probability, as well as discrete and continuous probability distribution functions. Statistical inference includes sampling, elementary experimental design, and hypothesis testing using normal, student-t, and F distributions, linear regression and correlation, and the Chi-square distribution. Graphing calculator is required. Prerequisite: Appropriate COMPASS placement score or successful completion of MATH& 99 is required.

Additional Fee: \$24.50

0545 5 Cr 9:00AM-9:50AM DAILY 09/26/16-12/16/16 16 113Stultz, Douglas [ENHANCED]  
0546 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Addison, John [ONLINE]

## **MECHATRONICS**

### **MEC 120 COMPUTER AIDED DESIGN I**

Introduces the use of parametric computer-aided design (CAD) software to design parts working from engineering sketches and/or prototypes.

PREREQUISITES

Successful completion of FSME 113.

Fee: 24.50

MQ42 5 Cr 7:30AM-11:00AM MW 09/26/16-12/16/16 25 103Yang, Feng [ENHANCED]

### **MEC 135 DIGITAL ELECTRONICS AND NETWORKING**

Introduces logic fundamentals, numbering systems, codes, gates, truth tables, basic Boolean theorems and combination logic circuits. Also introduces the elements used to create TCP/IP-based industrial networks, including switches, routers and firewalls. The course will include network troubleshooting and the use of network diagnostic tools.

PREREQUISITES

Successful completion of MEC 115.

Fee: 24.50

MQ52 5 Cr 7:30AM-11:00AM TTh 09/26/16-12/16/16 25 103Yang, Feng [ENHANCED]

### **MEC 140 COMPUTER PROGRAMMING**

Introduces computer programming and problem solving. Topics include language syntax, data types, program organization, algorithm design and logic control structures. Also covers program design techniques such as flowcharts and the use of pseudocode.

PREREQUISITES

Successful completion of MATH& 141.

Fee: 24.50

MQ62 5 Cr 11:30AM-3:15PM MW 09/26/16-12/16/16 25 103Yang, Feng [ENHANCED]

### **MEC 200 PROGRAMMABLE CONTROLS II**

Exercises students' PLC programming and integration skills through the completion of a project representative of modern industrial control practice. Students will also learn about installation, maintenance and troubleshooting of PLC systems.

PREREQUISITES

Successful completion of MEC 160.

Fee: 24.50

MQ72 5 Cr 11:30AM-3:15PM TTh 09/26/16-12/16/16 25 103Yang, Feng [ENHANCED]

### **MEC 281 INDEPENDENT STUDY I**

A theoretical and/or lab-based investigation into a topic directly related to Mechatronics. Students meet in person with an instructor and agree to an appropriate course of study. Students registering for independent study must submit, at or before registration, a description and timetable for completion, signed by both the instructor supervising the independent study and the student.

#### **PREREQUISITES**

Successful completion of ENGL& 101, MATH& 141, PHYS& 114, and instructor permission.

Fee: 55.00

MQ92 Var ARRANGED 09/26/16-12/16/16 25 103Yang, Feng

### **MEC 282 INDEPENDENT STUDY II**

A theoretical and/or lab-based investigation into a topic directly related to mechatronics. Students meet in person with an instructor and agree to an appropriate course of study. Students registering for independent study must submit, at or before registration, a description and timetable for completion, signed by both the instructor supervising the independent study and the student.

#### **PREREQUISITES**

Successful completion of ENGL& 101, MATH& 141, PHYS& 114, and instructor permission.

Fee: 55.00

MQA2 Var ARRANGED 09/26/16-12/16/16 25 103Yang, Feng

### **MEC 289 INTERNSHIP/WORK EXPERIENCE**

Provides students with practical on-the-job experience, and offers students a way to combine classroom study with related work experience under the supervision of an employer. Work experience must be related to the student's educational and career objectives in the field of mechatronics. Includes a weekly seminar component. Students must submit, at or before registration, a description of the proposed internship, signed by the employer, the instructor and the student.

#### **PREREQUISITES**

Instructor permission required.

Fee: 55.00

MQ82 5 Cr ARRANGED 09/26/16-12/16/16 25 103Yang, Feng

### **MEC 290 MECHATRONICS CAPSTONE PROJECT**

A required capstone project to be completed prior to graduation as a final check of competency. Students meet in person with an instructor and agree to a project that will apply the skills and competencies that students have acquired in the program, and that will result in a portfolio piece showcasing their abilities. Students must submit, at or before registration, a description and timetable for completion, signed by both the instructor supervising the capstone project and the student. This course is to be taken the final quarter of the program.

#### **PREREQUISITES**

Instructor permission.

Fee: 55.00

MQB2 5 Cr ARRANGED 09/26/16-12/16/16 25 103Yang, Feng

## **MEDICAL ASSISTANT**

**MAP 121 BODY SYSTEMS THEORY 101**

Caring for patients with disorders associated with Hematology, Endocrinology, Obstetrics & Gynecology, Urology & Male Reproduction and Gastroenterology. Instruction will include anatomy and physiology, pathophysiology, pharmacology, and terminology.

**PREREQUISITES**

Successful completion of CAH 102, CAH 105, COLL 102 and MAP 107.

**CO-REQUISITES**

MAP 124.

3802 4 Cr 12:00PM-3:00PM TTh 09/27/16-12/15/16 21 108 Jones, Michel [HYBRID]

**MAP 124 BODY SYSTEMS APPLICATIONS 101**

Practice fundamental skills relating to Body Systems Theory 101. Skills include blood glucose monitoring, care and use of the microscope, blood typing, cell identification and staining along with physical and chemical urinalysis, and UA slide preparation.

**PREREQUISITES**

Successful completion of CAH 102, CAH 105CL, COLL 102 and MAP 107..

**CO-REQUISITES**

MAP 121.

Additional Fee: \$26.00

3812 3 Cr 12:00PM-3:00PM MW 09/26/16-12/12/16 21 108 Jones, Michel [HYBRID]

**MAP 164 BODY SYSTEMS APPLICATIONS 103**

Practice fundamental skills relating to Body Systems Theory 103. Skills include; wound & burn care, assisting with sutures & suture removal, fiberglass cast application & removal, asepsis & infection control, identify surgical instruments & proper care of instruments, assist with minor office surgery, and operate autoclave. Also includes activities related to safety and emergency practices.

**PREREQUISITES**

Successful completion of MAP 146 and MAP 147.

**CO-REQUISITES**

MAP 166 and MAP 209.

Additional Fee: \$14.70

3872 3 Cr 3:30PM-6:30PM WF 09/28/16-12/14/16 21 122 Keith, Lora [HYBRID]

**MAP 166 BODY SYSTEMS THEORY 103**

Caring for patients with disorders associated with Dermatology, Orthopedic Medicine, Surgical Asepsis & Procedures and Safety and Emergency Practices. Instruction will include anatomy and physiology, pathophysiology, pharmacology, injections and terminology.

**PREREQUISITES**

Successful completion of MAP 147 and MAP 146.

**CO-REQUISITES**

MAP 164 and MAP 209.

Additional Fee: \$19.60

3862 4 Cr 3:30PM-6:30PM TTh 09/27/16-12/06/16 21 111 Keith, Lora [HYBRID]

**MAP 173 ACCOUNTING PRACTICES**

Covers basics of accounting and bookkeeping. Includes expanded discussion on manual procedures for accounts receivable management for both private patients and insurance companies.

**PREREQUISITES**

MAT 082 or higher. Completion of MAP 171 and MAP 179.

**CO-REQUISITES**

MAP 177 and MAP 209.

Additional Fee: \$19.60

3842 4 Cr 7:00PM-9:30PM TWThF 09/27/16-11/07/16 21 108Keith, Lora [HYBRID]

**MAP 177 FINANCIAL PRACTICES**

Continues developing skills from Accounting Practices course. Instruction also includes bank accounts, cash funds, and methods of preparation for employee and employer payroll and business taxes.

**PREREQUISITES**

MAT 082 or higher. Successful completion of MAP 171 and MAP 179.

**CO-REQUISITES**

MAP 173 and MAP 209.

Additional Fee: \$9.80

3852 2 Cr 7:00PM-9:30PM TWThF 11/08/16-12/09/16 21 108Keith, Lora [HYBRID]

**MAP 182 PATIENT RECEPTION AND LEGAL COMPONENTS**

Emphasis on customer service, within the health care field, focusing on effective communication with the patient while projecting and promoting a positive image of the profession and the office. This course also includes telephone techniques, patient scheduling, introduction to chart management, business correspondence for the medical office, including cover letter and resume preparation. Define law and ethics relating to the healthcare field focusing on components specific to medical assistants.

**PREREQUISITES**

Successful completion of CAH 102, CAH 105CL, COLL 102, and MAP 107.

**CO-REQUISITES**

MAP 184.

Additional Fee: \$19.60

3822 4 Cr 8:00AM-11:00AM MTWTh 09/26/16-11/10/16 21 108Jones, Michel [HYBRID]

**MAP 184 MEDICAL RECORDS MANAGEMENT**

Instruct and apply knowledge relating to medical records including the creation, management and legality of both the paper and electronic record as well as filing systems utilized within the healthcare office. Focus will also include assisting patients in obtaining health and community services, as well as supplies and inventory control.

**PREREQUISITES**

Successful completion of CAH 102, CAH 105CL, COLL 102 and MAP 107.

**CO-REQUISITES**

MAP 182.

Additional Fee: \$14.70

3832 3 Cr 8:00AM-11:00AM MTWTh 11/10/16-12/15/16 21 108Jones, Michel [HYBRID]

**MAP 209 PREPARATION FOR EXTERNSHIP**

Introduction of pharmacology math (with estimation components), administering oral and parental (intramuscular, subcutaneous, and intradermal) medications, performance of phlebotomy and microbiology while adhering to medical/surgical asepsis and Universal/Standard Precautions. Also included are student demonstrations of patient flow and uploading immunizations into the college designated database.

**PREREQUISITES**

Successful completion of MAP's 121, 124, 147, 146, 179, 171, 182, and 184. This course must be taken the quarter immediately prior to Quarter 5 courses. If more than one quarter passes before beginning Quarter 5, students will have to repeat this course.

**CO-REQUISITES**

MAP's 164, 166, 173, and 177.

Additional Fee: \$99.00

3882 4 Cr 3:30PM-10:00PM M 09/26/16-12/05/16 21 122Keith, Lora [HYBRID]

## **MEDICAL HISTOLOGY**

### **HISTO105 ORIENTATION TO HISTOLOGY LAB**

Introduces laboratory and chemical safety as well as universal precautions. Covers basic overview of standard histology instrumentation, quality control procedures, specimen accessioning, record keeping, and documentation. Explores laboratory and personnel certification requirements. Prerequisites: Successful completion of BIOL 118, CHEM& 110, and ENGL& 101.

Instructor permission required.

Additional Fee: \$40.00

5602 2 Cr 8:00AM-2:00PM DAILY 09/26/16-10/03/16 21 232Haggerty, Reb [ENHANCED]

### **HISTO110 HISTO TECHNOLOGY I**

Explores the theory and principles of fixation, processing, embedding, sectioning, and coverslipping of tissue sections. Prerequisites: Successful completion of BIOL 118, CHEM& 110, and ENGL& 101.

Instructor permission required.

Additional Fee: \$40.00

5612 10 Cr 8:00AM-2:00PM DAILY 10/04/16-12/16/16 21 232Haggerty, Reb [ENHANCED]

### **HISTO115 HISTO TECHNOLOGY LAB I**

Explores work in a simulated histology laboratory located on the campus. During this course, students will have hands-on training in basic grossing techniques, as well as in-depth training in processing, embedding, and cutting of tissue sections. Students will also learn to identify basic tissue structures using a light microscope.

Instructor permission required.

Additional Fee: \$40.00

5622 5 Cr 8:00AM-2:00PM DAILY 10/04/16-12/16/16 21 232Haggerty, Reb [ENHANCED]

## **MEDICAL LABORATORY TECHNICIAN**

### **MLT 221 BODY FLUIDS**

Introduces the production, collection, and analyses of various body fluids, including Cerebro-Spinal and Synovial fluids. This lecture-only course is presented on Wednesday afternoons during the fall quarter clinical phase.

Prerequisite: MLT 218

Additional Fee: \$27.00

4812 1 Cr 1:00PM-4:00PM W 10/26/16-12/14/16 21 222Guinn, Dana [HYBRID]

### **MLT 227 CLINICAL CHEMISTRY**

Beginning with an overview of the digestive system, students will study the relationship between blood levels of many substances and normal-versus-abnormal physiology. In the student laboratory, manual and semi-automated procedures are performed for the assay of many commonly-measured blood components. Preventative

maintenance of instruments, troubleshooting, and quality assurance are stressed throughout the course. This course is offered fall quarter. Prerequisite: MLT 223.

Additional Fee: \$27.00

4802 8 Cr 10:00AM-4:00PM DAILY 09/26/16-10/14/16 21 222Guinn, Dana [HYBRID]

### **MLT 232 CLINICAL EXPERIENCE I**

Begin the clinical phase of training in an affiliated laboratory. During this course, students will complete eight weeks of the experience. In the next courses (MLT 235 and 236), they will continue training for eleven more weeks. Over the course of the nineteen weeks of clinical training, the students will rotate through all departments and perform current routine procedures by state-of-the-art methodologies. Appropriate amounts of time are spent working in each particular discipline; to accomplish this, some students rotate through two or three different laboratories. Students are directly supervised by staff of the affiliated laboratory; there is ongoing contact with the Instructor in the form of weekly site-visits and Wednesday afternoon class sessions. A report of No Record on File regarding crimes against persons from the Washington State Patrol is required for participation in this training. This course is offered during fall quarter. Prerequisite: MLT 218

Additional Fee: \$14.00

4822 11 Cr ARR DAILY 10/17/16-12/16/16 ARR Guinn, Dana

## **NON DESTRUCTIVE TESTING**

### **MS 123 FUNDAMENTALS OF WELDING FOR NON WELDING MAJOR**

Students will identify, perform or witness various basic welding processes for prospective visual and non-destructive inspectors.

Additional Fee: \$45.00

09F2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC115 Boswell, Chris

### **MS 126 FUNDAMENTALS OF COMPOSITES FOR THE NON-COMPOSITE**

Introduces the various kinds of composite parts. This course explores the different types of resin, matrices, fibers, cores and laminates. Students will explore their mechanical properties and the advantages of each type of composite structure. Covers the layup, winding, molding, curing and repair of composite parts. Explores the role of NDT in testing composite parts after fabrication and after repair and the kinds of defects found.

Additional Fee: \$45.00

09G2 4 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC115 Boswell, Chris

### **MS 131 BLUEPRINT READING FUNDAMENTALS**

Covers basic lines and views of drawings, identifying and interpreting weld and fabrication symbols, and locating NDT requirements.

Additional Fee: \$45.00

09H2 3 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC115 Boswell, Chris

### **NDT 108 INTRODUCTION TO NDT**

This course is an introduction to terms and definitions and a method overview of nondestructive testing. Methods include eddy current, visual liquid penetrant, magnetic particle, radiography and ultrasonic testing.

Additional Fee: \$45.00

09T2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC115 Boswell, Chris

### **NDT 113 MATERIALS AND PROCESS FOR NDT I**



Explores the properties of materials, both metals and non-metals, and their applications in design and manufacturing. Introduction to Lean Concepts and applications.

Additional Fee: \$45.00

09U2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC115 Boswell, Chris

### **NDT 120 VISUAL AND OPTICAL TESTING**

Students will learn to detect various discontinuities related to power plant industry, structural steel fabrication and construction industry aerospace industry, petro-chemical industry and manufacturing processes.

Additional Fee: \$190.00

09M2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC114 Evans, Douglas

### **NDT 121 MATERIALS AND PROCESS FOR NDT II**

Learn the major manufacturing processes used to fabricate parts, their possible discontinuities and how to choose the appropriate NDT methods to inspect them.

Additional Fee: \$45.00

09V2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC115 Boswell, Chris

### **NDT 125 MAGNETIC PARTICLE TESTING**

Learn proper magnetization techniques, evaluate indications, interpret accept/reject standards, and implement quality control techniques. Students develop and write procedures and inspect welds, castings, and machined components. The course includes extensive hands-on training in the magnetic particle lab.

Additional Fee: \$190.00

09N2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC114 Evans, Douglas

### **NDT 130 LIQUID PENETRANT TESTING**

Covers principles and practices of liquid penetrant inspection. Learn why and when to use various types of penetrant materials, and the proper techniques necessary for reliable inspection. The course addresses the evaluation of liquid penetrant indications, interpreting standards and specifications, and checking penetrant system quality. Students review fundamental liquid penetrant principles and techniques, develop and write procedures, and inspect welds, castings, forgings, and machined components. Parts are evaluated according to relevant codes and/or standards.

Additional Fee: \$190.00

09P2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC114 Evans, Douglas

### **NDT 150 ULTRASONIC TESTING I**

Introduces ultrasonic principles of sound wave propagation and term definitions. Also introduces the student to the calibration ultrasonic equipment and the various straight beam testing methods. Covers linearity and immersion testing, Snells law, and angle beam calibration and testing are covered.

Additional Fee: \$190.00

09J2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC114 Musson, Chuck

### **NDT 180 ULTRASONIC TESTING II**

Covers the use of angle beam testing to locate and size welding flaws. Immersion inspection of composite materials will also be covered.

Additional Fee: \$190.00

09K2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC114 Musson, Chuck

### **NDT 185 PHYSICS FOR NDT PROFESSIONALS**

Covers physics concepts used in nondestructive testing, including right-triangle trigonometry, waves, sound, electric fields, electric current, resistance, circuits, magnetism, and the electromagnetic spectrum.

**PREREQUISITES**

Successful completion of MAT 099.

Additional Fee: \$45.00

09Q2 5 Cr 1:45PM-4:15PM MW 09/26/16-12/16/16 SHC114 Oyler, Mel

**NDT 220 ULTRASONIC TESTING III**

Covers the application of advanced ultrasonic techniques, procedures, codes, and specifications as they apply to industry. Advanced applications will be performed using normal beam testing, angle beam testing, and immersion techniques. Techniques will be applied to a variety of industries, such as power, construction, manufacturing, and aircraft inspection. Also exposes students to computerized ultrasonic applications.

Additional Fee: \$190.00

09L2 5 Cr 8:00AM-12:30PM DAILY 09/26/16-12/16/16 SHC114 Musson, Chuck

**NDT 240 CAPSTONE PROJECT**

Designed to synthesize and integrate the knowledge gained in all previous courses and demonstrate the application of theory and practice through a project.

Additional Fee: \$45.00

09R2 3 Cr ARR DAILY 09/26/16-12/16/16 SHC114 Musson, Chuck

**NDT 250 NDT INTERNSHIP**

Provides on-the-job practical experience under the supervision of an employer. Instructor permission is required for the site choice. Prerequisite: Advanced standing and Instructor's permission.

Additional Fee: \$45.00

09S2 Var ARR DAILY 09/26/16-12/16/16 SHC114 Musson, Chuck

## **NURSING ASSISTANT**

**NAC 101 NURSING ASSISTANT THEORY**

The Nursing Assistant Certified Program prepares students to take the state examination for nursing assistant certification licensure. All three courses in the program must be successfully completed for students to be eligible to take the state examination. This course provides an introduction to the role and responsibilities of being a Nursing Assistant and meets the theory requirements for Washington State Nursing Assistant training.

**PREREQUISITES**

Ability to lift up to 25 pounds.

NS02 6 Cr 8:00AM-2:30PM TWTh 09/26/16-10/19/16 21 211Hernandez, Kandy

**NAC 102 NURSING SKILL FUNDAMENTALS**

This course covers instruction and practice of nursing assistant skills. Students will not be allowed to participate in the final skills exam unless attendance for all clinical hours has been fulfilled.

**PREREQUISITES**

Documentation of required immunizations, ability to lift up to 25 pounds, and no record on file from the Washington State Patrol and DSHS. Successful completion of NAC 101.

Additional Fee: \$40.00

NS12 4 Cr 7:30AM-4:00PM MT 10/19/16-12/16/16 21 137Hernandez, Kandy  
NS22 4 Cr 7:30AM-4:00PM WTh 10/19/16-12/16/16 21 137Sword, Yvette

### **NAC 107 UNIT BASED CLINICAL EXPERIENCE**

This course includes clinical experience in a long-term facility under the supervision of an instructor.

#### **PREREQUISITES**

Documentations of required immunizations, ability to lift up to 25 pounds. Students must have no record on file for crimes against children or vulnerable adults from the Washington State Patrol and DSHS. Successful completion of NAC 101.

Additional Fee: \$14.00

NS32 3 Cr ARRANGED 09/26/16-12/16/16 ARR Hernandez, Kandy

## **NURSING ASSISTANT I-BEST**

### **NAC 126 NURSING ASSISTANT THEORY I I-BEST**

Introduction to the role and responsibilities of a Nursing Assistant. Includes the following topics: resident/work environment, infection control, special needs of the elderly, communication and interpersonal skills, body systems (introduction to key anatomical, physiological and pathological terms), documentation responsibilities, residents' rights, long-term care setting, legal/ethical issues, and stages of death and dying. This course will meet the didactic portion of Washington State and Omnibus Budget Reconciliation Act (OBRA) requirements for Nursing Assistant Training.

Instructor permission required.

Additional Fee: \$40.00

NS2N 3 Cr 6:30PM-8:00PM TWTh 09/27/16-11/17/16 21 211Collar, Shari

### **NAC 133 NURSING ASSISTANT THEORY II I-BEST**

Covers infection control, documentation responsibilities, first aid & CPR training, HIPAA, and HIV training.

Instructor permission required.

Additional Fee: \$40.00

NS2T 3 Cr 4:00PM-8:00PM TWTh 11/22/16-12/15/16 21 137Collar, Shari

## **NURSING PRACTICAL-NURSING**

### **NURS 117 FUNDAMENTALS OF NURSING**

Explores the health care system and the profession of nursing with emphasis on care with a diverse population of clients. Introduces the beginning practical nurse student to essential nursing concepts such as therapeutic communication, infection control, patient safety, patient education, evidence-based practice, scope of practice, legal and ethical issues, principles of caring, promotion of comfort and the nursing process.

#### **PREREQUISITES**

Admission to Practical Nursing program.

Instructor permission required.

Additional Fee: \$75.00

8002 4 Cr 8:00AM-12:00PM T 09/27/16-12/13/16 21 210Bahrt, David [HYBRID]

### **NURS 120 MEDICAL-SURGICAL NURSING I**

Focuses on the use of the nursing process in care of clients with selected health disturbances. Emphasis is given to psychological, sociocultural, and developmental factors. Nursing interventions, pharmacological considerations and client teaching are integrated. Prerequisites 102, 109, 112, 113, 115, 119.

Additional Fee: \$99.00

8012 3 Cr 8:00AM-11:00AM W 09/28/16-12/14/16 21 210Staff [HYBRID]

### **NURS 122 PRE-PHARMACOLOGY**

Prepares students to calculate drug dosages in order to accurately prepare and administer medications to a varied client population. Basic principles for client safety are reviewed.

#### **PREREQUISITES**

Admission to Practical Nursing program.

Additional Fee: \$88.00

8022 2 Cr 8:00AM-11:00AM M 09/26/16-12/12/16 21 210Serrano, Jean [HYBRID]

### **NURS 123 BASIC HEALTH ASSESSMENT & SKILLS**

Provides laboratory demonstration and supervised practice of nursing skills discussed in NURS 117 and NURS 120. Students will demonstrate competence in selected skills, using principles taught. During laboratory practice, students will use simulated equipment and classmates as patients.

#### **PREREQUISITES**

Admission to Practical Nursing program.

8032 5 Cr 12:00PM-3:00PM W 09/28/16-12/14/16 21 210Cooper, Lara [HYBRID]

### **NURS 124 MENTAL HEALTH NURSING**

Focuses on the continuum between mental health and illness and the therapeutic nurse-client relationship. Selected mental disorders will be discussed with emphasis on nursing interventions, common interdisciplinary treatments, and services available for clients in inpatient and outpatient settings. Prerequisite: NURS 102, 109, 112, 113, 115, 119.

8052 3 Cr 12:00PM-3:00PM M 09/26/16-12/12/16 21 210Anderson [HYBRID]

### **NURS 133 MEDICAL-SURGICAL NURSING III**

Focuses on the use of the nursing process in care of clients with selected health disturbances. Emphasis is given to psychological, sociocultural, and developmental factors. Pharmacologic and nutritional considerations and client teaching are integrated.

#### **PREREQUISITES**

Successful completion of NURS 125, NURS 126, NURS 128, NURS 130 and NURS 131.

Additional Fee: \$88.00

8062 4 Cr 8:00AM-12:00PM M 09/26/16-12/12/16 21 211Westberry, Ca [HYBRID]

### **NURS 149 CLINICAL PRACTICUM I**

Provides an opportunity for students to provide care to clients in long-term care, acute, and community settings. Experience involves direct client care, nursing procedures, and administration of medications to diverse clients of every stage of life. Focuses on safe nursing practice, nursing process, communication, documentation and client teaching.

## PREREQUISITES

Successful completion of NURS 125, NURS 126, NURS 128, NURS 130 and NURS 131.

Additional Fee: \$14.00

8072 5 Cr ARRANGED 09/26/16-12/16/16 ARR Westberry, Ca [HYBRID]

### **NURS 153 CLINICAL PRACTICUM II**

Provides an opportunity for students to provide care to clients in long-term care, acute, and community settings. Experience involves direct client care, nursing procedures, and administration of medications to diverse clients of every stage of life. Focuses on safe nursing practice, nursing process, communication, documentation and client teaching.

## PREREQUISITES

Successful completion of NURS 125, NURS 126, NURS 128, NURS 130 and NURS 131.

Additional Fee: \$14.00

8082 5 Cr ARRANGED 09/26/16-12/16/16 ARR Westberry, Ca [HYBRID]

## **NURSING RN-OPTION**

### **NURS 204 LPN TO RN TRANSITION**

This is a self-paced course that offers the introduction to the transition process of the Licensed Practical Nurse to the Registered Nurse student. Students will be provided an opportunity to remediate on skills and knowledge learned in Practical Nurse training. Students will be introduced to the scope of practice decision tree. Students will be required to demonstrate competency in identified practical nurse skills and knowledge before continuing into the RN program.

## PREREQUISITES

Admission to Associate Degree in Nursing (ADN) program.

2502 1 Cr ARRANGED 09/26/16-12/16/16 ON LINE Bahrt, David [ONLINE]

## **NUTRITION**

### **NUTR&101 NUTRITION**

An exploration of macronutrients (carbohydrates, proteins, and fats) and micronutrients (vitamins and minerals) and their role in growth, development, and optimal health throughout the lifespan. A study in the anatomy and physiology of the gastrointestinal tract and its relation to digestion, absorption and metabolism of nutrients will be completed. Students will explore the role of nutrition in preventing nutrition-related diseases. A healthy dietary plan will be developed to assist students in making healthy changes in their nutritional status for themselves and other members of their community.

## PREREQUISITES

Successful completion of ENGL& 101.

0569 5 Cr 12:00PM-2:30PM F 09/30/16-12/09/16 21 107Scott [HYBRID]

0572 5 Cr 3:00PM-5:00PM F 09/30/16-12/16/16 21 107Scott [HYBRID]

## **OPERATIONS MANAGEMENT**

### **ENG 310 BUSINESS COMMUNICATIONS**

Teaches students some of the techniques necessary to develop realistic and comprehensive project plans; identify risk areas; monitor the plans; and deal with problems. The course will also cover management of the procurement process, and communication with project stakeholders.

#### **PREREQUISITES**

Successful completion of ENGL& 101.

BA22 5 Cr ARRANGED 09/26/16-12/16/16 19 107Patching, Les [HYBRID]

### **OPM 311 MATHEMATICAL TECHNIQUES FOR OPERATIONS MANAGEMENT**

Provides students with the foundational mathematical tools required for operations management, including acceptance sampling, decision theory, probability theory, and linear programming.

#### **PREREQUISITES**

Successful completion of MATH& 146.

BA02 5 Cr ARRANGED 09/26/16-12/05/16 19 107Oyler, Mel [HYBRID]

### **OPM 312 FORECASTING AND SYSTEM DESIGN**

Introduces students to forecasting and capacity planning tools for manufacturing and service organizations. Covers the selection of appropriate processes and facility layouts, the design of work systems and maintenance planning.

#### **PREREQUISITES**

Successful completion of OPM 311 or instructor permission.

BA12 5 Cr ARRANGED 09/26/16-12/16/16 19 107Oyler, Mel [HYBRID]

## **PASTRY ARTS**

### **BAKE 106 CHOCOLATE I**

Explores the different types of chocolate used in making assorted treats, candies and garnishes. Various methods of tempering, chocolate decorating, fudges, truffles and other candies will be identified.

Additional Fee: \$123.60

3502 4 Cr 6:00AM-1:00PM **WF** 09/28/16-12/16/16 23 308Newman, Shell

### **BAKE 110 PATISSERIE I**

Provides students with the opportunity to attain fundamental cooking, time-management and production competencies in the program-run bistro. These include scones, muffins and cookies; demonstrating how to read, write and follow a standard recipe; and understanding the basic principles of various cooking methods. Students will uphold a high level of professionalism. Instructor permission required. Additional Fee: \$138.30

3512 7 Cr 6:00AM-1:00PM **TWThF** 09/27/16-12/16/16 23 308Newman, Shell

### **BAKE 115 PATISSERIE II**

Provides students with the opportunity to refine fundamental cooking, time management and production competencies in the program-run bistro. These include scones, muffins, cookies and cake; demonstrating how to read, write and follow a standard recipe; and understanding the basic principles of various cooking methods. Students will uphold a high level of professionalism. Additional Fee: \$138.30

3522 7 Cr 6:00AM-1:00PM **TWThF** 09/27/16-12/16/16 23 308Newman, Shell

**BAKE 117 FROZEN DESSERTS**

Explores the world of frozen desserts. Students will develop recipes for various frozen desserts such as gelato, sorbets, parfaits and ice creams along with savory desserts with the use of herbs, spices and vegetables.

Instructor permission required.

Additional Fee: \$118.70

3532 3 Cr 6:00AM-1:00PM TTh 09/27/16-12/16/16 23 308Newman, Shell

**BAKE 119 YEAST BREADS**

Introduces students to the techniques used with starters and yeasts. Students will demonstrate how to cultivate yeast and proper proofing and baking techniques, along with completing a variety of yeast breads. Additional Fee: \$123.60

3542 4 Cr 6:00AM-1:00PM WF 09/28/16-12/16/16 23 308Newman, Shell

**BAKE 121 PATISSERIE III**

Introduces students to the experience of managing, training and mentoring fellow classmates. Provides students with the opportunity to further refine fundamental cooking, time management and production competencies in the program-run bistro. These include scones, muffins, cookies and cake; demonstrating how to read, write and follow a standard recipe; and understanding the basic principles of various cooking methods. Students will uphold a high level of professionalism. Instructor permission required. Additional Fee: \$138.30

3552 7 Cr 6:00AM-1:00PM TWThF 09/27/16-12/16/16 23 308Newman, Shell

**BAKE 161 RETAIL AND CUSTOMER SERVICE**

Familiarizes students with all aspects of retail service, cashiering and retail displays. Included are opening/closing procedures, retail layout and presentation, customer service, leadership, sanitation and safety, proper cash handling, and sales techniques.

Instructor permission required.

Additional Fee: \$123.60

3562 4 Cr 9:00AM-1:45PM WThF 09/28/16-12/16/16 23 BSTR Newman, Shell

**BAKE 210 CAKES II**

Introduces students to advanced cakes such as high ratio, chiffon cakes and torts along with buttercream icings and fondant. Temperature and environmental factors in cake making will also be covered.

Instructor permission required.

Additional Fee: \$118.70

3572 3 Cr 6:00AM-1:00PM TTh 09/27/16-12/16/16 23 308Newman, Shell

**PHARMACY TECHNICIAN****PT 121 INTRODUCTION TO PHARMACY & PHARMACY LAW**

Orients students to the work of pharmacy technicians and the context in which technicians' work is performed. Study of pharmacy law, as it pertains to the practice of pharmacy in the state of Washington compared to the United States as a whole. Prerequisites: High school diploma or GED. Computer literate. Ability to speak, read, and write the English language. Successful completion of Math 107, 108, or 109, or higher. Successful completion of a 5 credit Medical Terminology course. Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above.

Instructor permission required.

Additional Fee: \$99.00

2702 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Sparks, M [ONLINE]

### **PT 124 PHARMACOLOGY PART I**

Explores drug action mechanisms, the routes of administration, and the effects on body systems. Emphasis on the uses, effects, and side effects of the major drug classes. Prerequisite: Same as PT 121.

Instructor permission required.

2722 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Sparks, M [ONLINE]

### **PT 128 PHARMACOLOGY PART II**

Continues the exploration of drug action mechanisms, the routes of administration, and the effects on body systems. Emphasis on the uses, effects, and side effects of the major drug classes and the systems they are used on. Prerequisite: Successful completion of PT 121, PT 124, PT 129 and PT 143 with a grade of B or above.

2752 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Autry, Trisha [ONLINE]

### **PT 131 COMMUNITY PHARMACY PRACTICE**

Introduces the retail pharmacy experience. Explores all aspects of community pharmacy practice, including keyboarding, prescription filling and compounding. Customer service is explored as well.

#### **PREREQUISITES**

High school diploma or high school equivalency diploma. Computer literacy. Ability to speak, read, and write the English language. Successful completion of a college-level math course within the last five years. Successful completion of a 5-credit Medical Terminology course. Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above.

Additional Fee: \$24.50

2732 5 Cr 7:30AM-11:30AM T 09/27/16-12/13/16 21 226Sparks, M [HYBRID]

### **PT 144 GENERIC DRUG NAMES PART I**

Introduces the top 200 drugs prescribed in the United States each year. Prerequisites: Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above.

Instructor permission required.

Additional Fee: \$14.70

2712 3 Cr 12:00PM-1:20PM T 09/27/16-12/13/16 21 226Sparks, M [HYBRID]

### **PT 145 HOSPITAL PRACTICE**

Introduces students to formularies, manual and electronic distribution systems, and procedures for hospital practice.

#### **PREREQUISITES**

Successful completion of PT 121, PT 124, PT 131, PT 144, and PT 156 with grades of B or above in all courses.

Additional Fee: \$19.60

2772 4 Cr 4:00PM-5:00PM TW 09/27/16-12/16/16 21 226Autry, Trisha [HYBRID]

### **PT 148 CLINICAL CAPSTONE RESEARCH**

Discover local pharmacies and the requirements for internship. Explore professional conduct and appearance. Prepare for National Certification. Prerequisite: Successful completion of all first quarter pharmacy technician requirements.

2792 4 Cr ARRANGED 09/26/16-12/16/16 ON LINE Autry, Trisha [ONLINE]

### **PT 153 GENERIC DRUG NAMES PART II**



Continues the exploration of the top 200 drugs prescribed in the United States each year, adding a component of drugs used specifically in the hospital setting. Prerequisite: Successful completion of PT 143 Generic Drug Names I.

2762 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Autry, Trisha [ONLINE]

### **PT 156 PHARMACEUTICAL CALCULATIONS**

Math specific to the practice of pharmacy will be explored. Prerequisite: Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above. Instructor permission required. Instructor permission required.

Additional Fee: \$9.80

2742 2 Cr 7:30AM-9:30AM Th 09/29/16-12/15/16 21 226Sparks, M [HYBRID]

### **PT 160 STERILE PARENTERAL PRODUCT PREPARATIONS**

Students will apply techniques learned to prepare sterile compounding products. Emphasis will be on aseptic technique and USP <797>.

#### **PREREQUISITES**

Successful completion of PT 121, PT 124, PT 131, PT 144 and PT 156 with grades of B or above in all courses.

Additional Fee: \$88.00

2782 3 Cr 5:00PM-6:30PM TW 09/27/16-12/16/16 21 226Autry, Trisha [HYBRID]

### **PT 163 COMMUNITY PHARMACY CLINICAL CAPSTONE**

Students will spend 5 weeks in a Community Pharmacy setting. While in this capstone experience, student will perform the duties of a community pharmacy technician under the direct supervision of a pharmacist. There will be ongoing contact with the Instructor in the form of site visits and seminars. Prerequisite: Successful completion of all in-class pharmacy technician requirements with grades of B or above in all courses.

Additional Fee: \$14.00

27A2 7 Cr ARRANGED 09/26/16-12/16/16 ARR Autry, Trisha [HYBRID]

### **PT 165 INSTITUTIONAL CLINICAL CAPSTONE**

Students will spend 5 weeks in an Institutional pharmacy setting. While in this capstone experience, students will perform the duties of an institutional pharmacy technician under the direct supervision of a pharmacist. There will be ongoing contact with the Instructor in the form of site visits and seminars. Prerequisite: Successful completion of all in-class pharmacy technician requirements with grades of B or above in all courses.

Additional Fee: \$14.00

27B2 7 Cr ARRANGED 09/26/16-12/16/16 ARR Autry, Trisha [HYBRID]

## **PROFESSIONAL PILOT**

### **AVP 105 PRIVATE PILOT I**

Training in basic aircraft control, aircraft systems, airport procedures, and traffic pattern operations. Prerequisite: FAA Class II Medical with Student Pilot Certificate prior to the first day of class.

Instructor permission required.

Additional Fee: \$19.60

5102 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

### **AVP 110 PRIVATE PILOT II**

Covers aircraft control, establishing and maintaining specific flight altitudes, and ground reference maneuvers.

Prerequisite: AVP 105 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

5112 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

### **AVP 115 PRIVATE PILOT III**

Basic performance maneuvers, traffic pattern procedures, and takeoffs and landings. Upon successful completion, the student shall solo the aircraft. Prerequisite: AVP 110 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

5122 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

### **AVP 118 PRIVATE PILOT PRACTICAL TEST STANDARDS I**

Receive additional flight and ground training as required to meet pilot certification requirements. Introduces knowledge, skill, and aeronautical experience necessary to successfully complete the navigation and cross country flight portion of flight training. Prerequisite: Grade of "C" or better in AVP 115 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

5132 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars [ENHANCED]

### **AVP 125 PRIVATE PILOT IV**

Introduces knowledge, skill and aeronautical experience necessary to successfully complete the navigation and cross country flight portion of flight training. Prerequisite: AVP 115 or equivalent

Instructor permission required.

Additional Fee: \$19.60

5142 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

### **AVP 130 PRIVATE PILOT V**

Provides the knowledge, skill, and aeronautical experience necessary to read and understand disseminated weather reports and forecasts. Meets the requirements for cross country navigation and basic instrument flight.

Prerequisite: AVP 125 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

5152 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

### **AVP 135 PRIVATE PILOT VI**

Gain the proficiency to meet the requirements necessary for FAA Private Pilot Certification with an Airplane Category and Single-Engine Class Rating. Prerequisite: AVP 130 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

5162 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

### **AVP 138 PRIVATE PILOT PRACTICAL TEST STANDARDS II**

Receive additional flight and ground training as required to meet pilot certification requirements.

Instructor permission required.

Additional Fee: \$19.60

5172 4 Cr 12:00PM-3:00PM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars [ENHANCED]

**AVP 140 INSTRUMENT PILOT I**

Introduces skills that will establish a strong foundation in basic altitude instrument flying and basic instrument navigation. Prerequisite: FAA Private Pilot Certificate.

Instructor permission required.

Additional Fee: \$19.60

5182 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 145 INSTRUMENT PILOT II**

Perform precision altitude instrument flight, including advanced navigation techniques and procedures.

Prerequisite: AVP 140 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

5192 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 150 INSTRUMENT PILOT III**

Apply advanced navigation techniques and perform holding pattern entry procedures. Prerequisite: AVP 145 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51A2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 152 INSTRUMENT PILOT PRACTICE III**

Receive additional flight and ground training as required to meet pilot certification requirements. Perform holding patterns and instrument approach procedures. Prerequisite: Grade of "C" or better in AVP 150 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51B2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars [ENHANCED]

**AVP 155 INSTRUMENT PILOT IV**

Perform holding patterns and instrument approach procedures. Prerequisite: AVP 150 or equivalent

Instructor permission required.

Additional Fee: \$19.60

51C2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 160 INSTRUMENT PILOT V**

Perform cross-country flight utilizing advanced navigation procedures. Utilize ATC communication procedures and conduct instrument departures, arrivals, and approaches. Prerequisite: AVP 155 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51D2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 170 INSTRUMENT PILOT VI**

Gain the proficiency to meet the requirements necessary for FAA Instrument-Airplane Rating. Prerequisite: AVP 160 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51F2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 172 INSTRUMENT PILOT PRACTICAL STANDARDS IV**

Receive additional flight and ground training as required to meet pilot certification requirements.

Instructor permission required.

Additional Fee: \$19.60

51G2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars [ENHANCED]

**AVP 175 COMMERCIAL PILOT I**

Acquire initial VFR cross-country flight training. Pilotage, dead-reckoning, and radio navigation will be covered.

Prerequisite: FAA Private Pilot Certificate, Instrument-Airplane Rating.

Instructor permission required.

Additional Fee: \$19.60

51H2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 180 COMMERCIAL PILOT II**

Receive additional VFR cross-country flight training. Additional flight training will encompass mountain flying techniques and local night flight operations. Prerequisite: AVP 175 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51J2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 185 COMMERCIAL PILOT III**

Receive final training in VFR cross-country flight and night operations. The necessary cross-country flight hours required for Commercial Pilot Certification will be completed. Prerequisite: AVP 180 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51K2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 210 COMMERCIAL PILOT IV**

Receive initial flight and ground training in high performance Commercial Pilot Certification maneuvers. Flight maneuver training includes chandelles, lazy eights, steep power turns, and accuracy landings. Prerequisite: Grade of "C" or better in AVP 185 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51L2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 215 COMMERCIAL PILOT V**

Gain additional aeronautical knowledge and flying skills necessary for the performance of advanced precision flight maneuvers. Prerequisite: AVP 210 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51M2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 220 COMMERCIAL PILOT VI**

Receive advanced training in all of the required Commercial Pilot Certification maneuvers. Flying proficiency in these maneuvers will meet the requirements set forth in the FAA Practical Test Standards. Prerequisite: AVP 215 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51N2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 223      COMMERCIAL PILOT PRACTICAL STANDARDS V**

Receive additional flight and ground training as required to meet pilot certification requirements.  
Instructor permission required.

Additional Fee: \$19.60

51P2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars [ENHANCED]

**AVP 230      COMMERCIAL PILOT VII**

Operate a high-performance aircraft with retractable landing gear and constant speed propeller. Basic flight maneuvers and aircraft systems will be covered. Prerequisite: Grade of "C" or better AVP 220 or equivalent.  
Instructor permission required.

Additional Fee: \$19.60

51Q2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 235      COMMERCIAL PILOT VIII**

Operate a high-performance aircraft with retractable landing gear and constant speed propeller. Advanced flight maneuvers as well as emergency procedures will be mastered. Prerequisite: AVP 230 or equivalent.  
Instructor permission required.

Additional Fee: \$19.60

51R2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 240      COMMERCIAL PILOT IX**

Operate a high-performance aircraft with retractable landing gear and constant speed propeller. Increase proficiency in advance flight maneuvers and emergency procedures. Obtain logbook endorsement for the operation of High Performance Airplanes. Prerequisite: AVP 235 or equivalent.  
Instructor permission required.

Additional Fee: \$19.60

51S2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 245      COMMERCIAL PILOT X**

Receive initial preparative training to increase aeronautical skills and experience to meet the requirements for the issuance of a Commercial Pilot Certificate. Prerequisite: Grade of "C" or better in AVP 240 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51T2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 250      COMMERCIAL PILOT XI**

Receive additional preparative training to increase aeronautical skills and experience to meet the requirements for the issuance of a Commercial Pilot Certificate. Prerequisite: AVP 245 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51U2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 255      COMMERCIAL PILOT XII**

Receive final advanced preparative training to increase aeronautical skills and experience to meet the requirements for the issuance of a Commercial Pilot Certificate. Prerequisite: AVP 250 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51V2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 257      COMMERCIAL PILOT PRACTICAL STANDARDS VI**

Receive additional flight and ground training as required to meet pilot certification requirements. Receive initial training in teaching and learning theory as well as overall review of commercial pilot aeronautical knowledge subject areas. Student will be trained to fly the aircraft from the right seat to Commercial Pilot Practical Test Standards. Prerequisite: FAA Commercial Pilot, Airplane Certificate, and Instrument Airplane Rating.

Instructor permission required.

Additional Fee: \$19.60

51W2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars [ENHANCED]

**AVP 260      CERTIFIED FLIGHT INSTRUCTOR I**

Receive initial training in teaching and learning theory as well as overall review of commercial pilot aeronautical knowledge subject areas. Prerequisite: FAA Commercial Pilot; Airplane Certificate and Instrument Airplane Rating

Instructor permission required.

Additional Fee: \$19.60

51X2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 265      CERTIFIED FLIGHT INSTRUCTOR II**

Master proper teaching techniques from the right seat of the training aircraft. Develop proficiency in conducting aeronautical knowledge briefings. Successful completion will result when knowledge and proficiency meet and/or exceed FAA Practical Test Standards. Prerequisite: AVP 260 or equivalent.

Instructor permission required.

Additional Fee: \$19.60

51Y2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**AVP 268      INSTRUMENT FLIGHT INSTRUCTOR**

Acquire the aeronautical knowledge, skills, and experience necessary to meet the requirements for an FAA Instrument Flight Instructor rating. Prerequisite: FAA Commercial Pilot-Airplane Certificate with Instrument Airplane Rating Certified Flight Instructor-Airplane Certificate.

Instructor permission required.

Additional Fee: \$19.60

51Z2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

**PSYCHOLOGY****PSY 112      PSYCHOLOGY OF THE WORKPLACE**

Introduces general psychological principles and their application to the workplace emphasizing critical thinking with regard to self-awareness, interpersonal relations, motivation, and teamwork. PREREQUISITE: COMPASS Reading Score of at least 81, equivalent SLEP score or successful completion of ENG 094.

0549 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Wheeler, Mike [ONLINE]

**PSYC&100      GENERAL PSYCHOLOGY**

Surveys the knowledge and methods of the discipline of psychology. A broad view of this subject is presented and establishes the foundation for further study of the discipline. Emphasis will be placed upon the application of psychological knowledge to daily situations, and upon accessing and assessing information about behavior from

a variety of sources. Skills in scientific reasoning and critical thinking will be developed. Prerequisite: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

0551	5 Cr	ARRANGED	09/26/16-12/16/16	ON LINE	Wheeler, Mike [ONLINE]
0552	5 Cr	1:00PM-1:50PM	DAILY 09/26/16-12/16/16	16 203	Anderson, Cha [HYBRID]
0553	5 Cr	11:00AM-11:50AM	DAILY 09/26/16-12/16/16	16 203	Wheeler, Mike [ENHANCED]
0554	5 Cr	12:00PM-12:50PM	DAILY 09/26/16-12/16/16	16 203	Anderson, Cha [HYBRID]
0555	5 Cr	8:00AM-8:50AM	DAILY 09/26/16-12/16/16	16 203	Wheeler, Mike [ENHANCED]
0556	5 Cr	9:00AM-9:50AM	DAILY 09/26/16-12/16/16	16 203	Rose-Pennisi [ENHANCED]
0557	5 Cr	ARRANGED	09/26/16-12/16/16	ON LINE	Rose-Pennisi [ONLINE]
<del>0558</del>	<del>5 Cr</del>	<del>9:00AM-1:00PM</del>	<del>Sa 09/26/16-12/16/16</del>	<del>16 203</del>	<del>Curry, Roger [HYBRID]</del>

### **PSYC&200 LIFESPAN PSYCHOLOGY**

Introduces the milestones of human development from conception to death. It describes the physical, cognitive, and social growth of people, with special attention to various cultural contexts of development and the rich diversity of individuals. The content is drawn from research and theories in developmental psychology. Students are expected to integrate their personal experiences, knowledge of psychology, and their observations of human development with the content of this course. Implications for parenting, education, and social policymaking will be discussed so that students may apply course information to meaningful problems.

#### **PREREQUISITES**

Successful completion of PSYC& 100.

0559	5 Cr	ARRANGED	09/26/16-12/16/16	ON LINE	Sperry, David [ONLINE]
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### **PSYC&220 ABNORMAL PSYCHOLOGY**

Abnormal Psychology addresses the development, symptoms, and treatment of psychological and personality disorders. Prerequisite: Successful completion of PSYC& 100 or PSY 112.

0560	5 Cr	ARRANGED	09/26/16-12/16/16	ON LINE	Sperry, David [ONLINE]
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## **PUBLIC SPEAKING**

### **CMST&220 BUSINESS AND PROFESSIONAL SPEAKING**

AN OPEN COURSE LIBRARY CLASS; inexpensive course materials. Assists students in developing real world oral communication skills. Capture the dynamics of today's business realities and see the benefits of effective communication. Selection of topics, library research, analysis, oral style, use of visual aids, and preparation and delivery of various types of speeches and oral presentations are included. The Internet, e-mail, community interaction, and other practical tools support student learning and increase public speaking skills. Emphasis is placed in principles of cultural diversity. Prerequisite: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

0515	5 Cr	9:00AM-11:20AM	MW	09/26/16-12/14/16	14 212	Heath, Terry [HYBRID]
0517	5 Cr	2:00PM-4:20PM	MW	09/26/16-12/14/16	14 212	Martindale, K [HYBRID]
0518	5 Cr	2:00PM-4:20PM	TTh	09/27/16-12/15/16	14 212	Health, Terry [HYBRID]

## **RESTAURANT OPERATIONS**

### **REST 107 KITCHEN AND DINING MANAGEMENT**

Students will learn how to communicate, lead, and manage different types of people. This entails how to hire and fire, inventory control, writing job descriptions, and creating performance reviews for both front and back of the house.

Instructor permission required.

Additional Fee: \$130.00

3262 3 Cr 9:00AM-1:45PM WThF 09/28/16-12/16/16 31 Trudnowski, M [ENHANCED]

### **REST 112 RESTAURANT DINING**

Familiarizes the student with all aspects of running a casual style dining room which is open to the public. Included are opening/closing procedures, table set-up, customer service techniques, and leadership, sanitation, and safety procedures.

Instructor permission required.

Additional Fee: \$130.00

32C2 7 Cr 9:00AM-1:45PM WThF 09/28/16-12/16/16 31 Trudnowski, M [ENHANCED]

### **REST 122 FOOD SERVICE NUTRITION**

Learn the basics of food service nutrition for culinary professionals. This class will teach students about the biological process that occurs as you eat, what constitutes a healthy diet, and the structure and function of foods.

Instructor permission required.

Additional Fee: \$130.00

3272 4 Cr 7:00AM-9:00AM ThF 09/29/16-12/16/16 14 200B Trudnowski, M [ENHANCED]

### **REST 126 FINANCE AND ACCOUNTING**

Prepares students to understand, interpret, and analyze financial statements, budgeting, cash flow, and cash management. This gives students a chance to become familiar with financial statements prior to entering the work force so they have a working knowledge in this area.

Instructor permission required.

Additional Fee: \$130.00

3282 4 Cr 7:00AM-9:00AM MTW 09/26/16-12/14/16 14 200B Trudnowski, M [ENHANCED]

### **REST 131 BUSINESS PLAN DEVELOPMENT**

Develop a restaurant concept from start to finish, including a hands-on look at how to develop a business plan to present to possible investors. Students will practice decision making and problem solving skills through creating and planning their own concept.

Instructor permission required.

Additional Fee: \$130.00

3292 4 Cr ARRANGED 09/26/16-12/16/16 ARR Trudnowski, M [ENHANCED]

### **REST 133 BEVERAGE SERVICE**

Learn to set up and manage a beverage service operation successfully. Includes the history of bar service, beverage making ingredients and processes, and safety and sanitation in the bar.

Instructor permission required.

Additional Fee: \$130.00

32A2 4 Cr 7:00AM-9:00AM M 09/26/16-12/12/16 14 200B Trudnowski, M [ENHANCED]

### **REST 137 HOSPITALITY LAW**

Learn about laws affecting the hospitality industry on both a national and state level. This class will look at operating an establishment according to government regulations regarding sales, civil rights, liability, administration issues, and organization.

Instructor permission required.

Additional Fee: \$130.00



**RETAIL****RBM 105 FUNDAMENTALS OF ORGANIZATIONAL BEHAVIOR**

Emphasizes the human factor in business, the job of the supervisor, human relations, the art of leadership and converting policy into action, job analysis and performance, how and when to discipline, and effective supervising techniques for a diverse workplace.

5782 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 107 MARKETING**

Discover the methods and techniques of marketing research and the principles on which they are based. Includes the elements of the research process, evaluation and effective presentation of findings.

5792 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 109 PRINCIPLE OF RETAILING**

Provides an introduction to retail management operations and merchandising. Covers retail target markets, trading area analysis and site selection, retail organization, buying, handling financial management of merchandise, development of retail image, customer service, and control of retail operations.

57A2 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 111 BUSINESS COMMUNICATIONS**

Prepares students to communicate effectively in business settings by helping them develop superior written and oral communication skills. This course focuses on traditional and web-based forms of communication, as seen in business today, including e-mail, letters, memos, reports, proposals, and presentations. Upon completion of Business Communications, students will know how to plan, write, and revise communications for a variety of audiences, both in print and online.

5742 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 113 BUSINESS TECHNOLOGY FOR RETAIL APPLICATIONS**

Gain hands-on experience with the fundamentals of Office, like entering data, formatting, copying and pasting, basic formula construction, auto summing and more. This course will not only teach you the basics of Microsoft Office but will also teach you the thinking and mechanics of how to apply it to your everyday retail problems.

57B2 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 115 HUMAN RESOURCE MANAGEMENT**

Identify the role of human resource management, including its scope and responsibilities. Students will examine the principles and methods used in the recruitment, selection, placement, and training of employees. Major laws, trends, and issues related to human resource administration will be discussed.

57C2 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 117 PRINCIPLES OF MANAGEMENT**

Learn essential skills for operating an effective business. Topics include employee productivity, project management, human resources and job design, forecasting, statistical process control and supply chain management.

5772 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 119 FINANCIAL MANAGEMENT**

Introduces students to key financial management topics that give insight into the issues and challenges facing financial managers every day. Examines the latest financial developments, including a discussion on IPOs as a broad topic and the sale of stock. This course delivers the solid understanding of financial management that a business student needs for future success.

57J2 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 123 CUSTOMER SERVICE STRATEGIES**

Concepts of effective customer service, step-by-step suggestions for improving your skills, and valuable references for delivering exceptional internal and external customer service skills. Offered online.

5752 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 129 SPEAKING FOR SUCCESS**

Theory and practice in composing and presenting oral business communications, both impromptu and prepared. Effective writing of business documents, methods of research, and presentation of oral class reports.

5722 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 133 EFFECTIVE SELLING**

Nature and scope of selling and understanding buying motives with strong emphasis on the selling process, prospecting, pre-approach, demonstration of products and services, and closing. Develop selling skills through role-play, case studies, and in-class simulations. Offered online.

57G2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 159 E-COMMERCE PRINCIPLES & APPLICATIONS**

This introduction to the world of electronic commerce provides the tools necessary to understand and capitalize on the explosion of Internet-based business in today's economy. Study the technologies used to create new opportunities for business-to-business and business-to-customer services.

5762 4 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 162 SOCIAL MEDIA MARKETING**

Social Media Marketing will give you a practical approach to developing successful social media marketing plans. A proven eight-step social-media planning model provides students with a cumulative learning experience, showing them how to construct social media strategies that achieve desired marketing goals.

57H2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 164 MARKETING COMMUNICATIONS**

Developed with real-world examples to illustrate the concepts of promotion and gives students a glimpse into industry and the challenges it faces. This course will introduce concepts on developing a target market, how to find your target market and how to effectively build relationships through research and branding to the company's core customer.

57K2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 166 SUCCESSFUL CAREER DEVELOPMENT**

Participate in self-analysis, goal setting, career exploration, personal appearance and grooming; resume writing, application letter writing, and the employment interview; and communication of ideas, interviewing practice, and other techniques of successful career development.

57D2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

**RBM 168 CONSUMER BEHAVIOR**

Introduction to the core concepts and applications of contemporary consumer behavior as it is practiced today with the latest consumer behavior statistics, examples and trends. This course emphasizes how the recent recession, green marketing, and natural disasters all impact contemporary consumer behavior.

57L2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

### **RBM 201 INTRODUCTION TO BUSINESS**

Introduces students to the functional areas of business: management, marketing, accounting, finance, and information technology. Core topics highlighted within these areas include ethics and social responsibility, forms of business ownership, small business concerns, and international issues.

57F2 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

## **SOCIOLOGY**

### **SOC& 101 INTRODUCTION TO SOCIOLOGY**

Provides an overview of many theories relating to contemporary society and a historical context for these theories. Prerequisite: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

0561 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Rose-Pennisi [ONLINE]

0562 5 Cr 11:00AM-11:50AM DAILY 09/26/16-12/16/16 14 208Rose-Pennisi [HYBRID]

0563 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Anderson, Cha [ONLINE]

0564 5 Cr 10:00AM-10:50AM DAILY 09/26/16-12/16/16 16 203Anderson, Cha [HYBRID]

## **SURGICAL TECHNOLOGY**

### **SURG 126 PATIENT CARE THEORY I**

Covers surgical attire, instrument groups, OR preparation and equipment, case selection, patient transfer, positioning, skin preparation and draping concepts, patient identification, and consent. Prerequisites: Successful completion of SURG 136, 137, 138, 146.

4002 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Clark, Kezia [ONLINE]

### **SURG 127 PHARMACOLOGY & ANESTHESIA**

Introduces the student to basic surgical-related pharmacologic and anesthetic principles, including drug classification, proper medication labeling and handling, aseptic medication preparation, and usage principles of anesthesia administration and monitoring, including complications and intervention. Prerequisites: Successful completion of SURG 136, 137, 138,146.

4012 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Clark, Kezia [ONLINE]

### **SURG 141 OPERATING ROOM THEORY II**

Classroom and lab presentations of surgical specialties to include otorhinolaryngologic, orthopedic, oral/maxillofacial, plastic/reconstructive procedures, and surgical anatomy. Prerequisites: Successful completion of SURG 136, 137, 138,146.

Additional Fee: \$39.20

4022 8 Cr 7:00AM-10:30AM WThF 09/26/16-12/16/16 21 113Clark, Kezia [HYBRID]

### **SURG 151 SURGICAL LAB II**

Lab presentations and practice of surgical procedures to include otorhinolaryngologic, oral/maxillofacial, and plastic/reconstructive procedures. Prerequisites: Successful completion of SURG 136, 137, 138, 146.5.

Additional Fee: \$24.50

4032 5 Cr 11:00AM-1:30PM TWThF 09/26/16-12/16/16 21 120Clark, Kezia [ENHANCED]

### **SURG 215 CLINICAL APPLICATIONS I**

Provides the framework for the student to receive experience in the operating room. Through one-on-one training in a perioperative setting, the student will develop the professional attitude, behavior, and skills to reinforce their role as a member of the perioperative team. Prerequisites: Successful completion of SURG 130, 206, 207, 211.

Additional Fee: \$14.00

4042 5 Cr ARR MTWTh 09/26/16-11/03/16 ARR Armstrong[ENHANCED]

### **SURG 220 CLINICAL APPLICATIONS II**

See Clinical Applications. Prerequisites: Successful completion of SURG 130, 206, 207, 211, 215.

Additional Fee: \$14.00

4052 5 Cr ARR MTWTh 11/07/16-12/16/16 ARR Armstrong[ENHANCED]

### **SURG 235 SEMINAR I**

Classroom presentations on health and wellness, and death and dying. Classroom preparation for the NBSTSA exam. Prerequisites: Successful completion of SURG 130, 206, 207, 211.

Additional Fee: \$14.70

4062 3 Cr 7:00AM-10:30AM F 09/26/16-12/16/16 21 113Armstrong[ENHANCED]

## **WELDING TECHNOLOGY**

### **WLD 105 WELDING THEORY I**

Introduces the tools and equipment used in welding. Includes safety considerations, electrical principles, weld quality, and technical orientation for select welding and cutting processes. Corequisites: WLD 110 and WLD 112. Instructor permission required.

Additional Fee: \$105.00

9802 5 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AQ 5 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98Q2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

### **WLD 110 THERMAL CUTTING AND GOUGING**

Develops the knowledge and skill for manual and machine-guided oxyfuel cutting, manual plasma arc cutting, and carbon arc gouging. Corequisite: WLD 105.

Instructor permission required.

Additional Fee: \$105.00

9812 3 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AR 3 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98R2 3 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

### **WLD 112 OXYACETYLENE WELDING AND BRAZING**

Develops the knowledge and skill for welding, brazing, and braze welding various joint designs using oxyacetylene equipment. Corequisite: WLD 105.

Instructor permission required.

Additional Fee: \$105.00

9822 4 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AS 4 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98S2 4 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 117 SMAW I**

Introduces the shielded metal arc welding (SMAW) process with emphasis on skill development using deep penetrating electrodes in the flat and horizontal positions, deep penetrating electrodes by welding various joints in the vertical and overhead positions.

**PREREQUISITES**

Completion of or concurrent enrollment in WLD 105.

Additional Fee: \$105.00

9832 7 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AT 7 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98T2 7 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 123 SMAW II**

Develops understanding of the applications and techniques for using low-hydrogen SMAW electrodes in the flat and horizontal positions, low-hydrogen electrodes by welding various joint designs in the vertical and overhead positions.

**PREREQUISITES**

Successful completion of WLD 105.

Additional Fee: \$105.00

9842 7 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AU 7 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98U2 7 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 142 WELDING THEORY II**

Explores methods of weld inspection and testing, and continues the technical orientation to select welding processes. Prerequisite: WLD 105.

Instructor permission required.

Additional Fee: \$105.00

9852 5 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AV 5 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98V2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 144 PRINT READING FOR WELDERS**

Develops the ability to interpret prints used in welding and fabrication. Introduction to sketching, lines, views, visualization, dimensioning, applied math, and welding symbols. Prerequisite: WLD 105.

Instructor permission required.

Additional Fee: \$105.00

9862 5 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AW 5 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98W2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 152 GAS METAL ARC WELDING**

Develops the ability to use the gas metal arc welding process to join carbon steels and aluminum with various joint designs in all positions. Prerequisite: Completion of or concurrent enrollment in WLD 142.

Instructor permission required.

Additional Fee: \$105.00

9872 7 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AX 7 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98X2 7 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 157 METALLURGY**

Examines metal identification and classification, mechanical properties, crystalline structures, heat treatments and metallurgical effects of welding.

**PREREQUISITES**

Successful completion of WLD 142.

Additional Fee: \$105.00

9882 5 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AY 5 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98Y2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 168 FLUX CORED ARC WELDING I**

Develops the ability to use gas-shielded flux cored arc welding electrodes to join carbon steels with various joint designs in all positions. Prerequisite: Completion of or concurrent enrollment in WLD 142.

Instructor permission required.

Additional Fee: \$105.00

9892 7 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

98AZ 7 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98Z2 7 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

**WLD 210 GAS TUNGSTEN ARC WELDING I**

Develops the ability to use the gas tungsten arc welding process to join carbon and stainless steels with various joint designs in all positions. Prerequisite: Completion of, or concurrent enrollment in, WLD 142.

Instructor permission required.

Additional Fee: \$105.00

98AD 7 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

98BD 7 Cr 5:00PM-10:00PM F 09/26/16-12/16/16 25 403Tonyuk

98D2 7 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

**WLD 211 ADVANCED GTAW I**

Develops the welding techniques in all positions for Gas Tungsten Arc Welding for a variety of light gauge steel and aluminum joint designs.

**PREREQUISITES**

Successful completion of WLD 210 or instructor permission.

Additional Fee: \$105.00

98AF 7 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

98BF 7 Cr 5:00PM-10:00PM F 09/26/16-12/16/16 25 403Tonyuk

98F2 7 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

**WLD 214 ADVANCED GTAW II**

Develops the welding techniques in all positions for Gas Tungsten Arc Welding for a variety of light gauge exotic metals joint designs.

**PREREQUISITES**

Completion of, or concurrent enrollment in, WLD 211.

Additional Fee: \$105.00

98AG 7 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 25 403Agostino

98BG 7 Cr 5:00PM-10:00PM DAILY 09/26/16-12/16/16 25 403Tonyuk

98G2 7 Cr 7:00AM-12:00PM DAILY 09/26/16-12/16/16 25 403Meyers, David

**WLD 215 COOPERATIVE WORK EXPERIENCE**

Provides on-the-job practical experience under the supervision of an employer. Instructor permission is required for site choice. Prerequisite: Advanced standing with Instructor's permission.

Instructor permission required.

Additional Fee: \$105.00

98AH	Var	ARRANGED	09/26/16-12/16/16	25	403	Agostino
98BH	Var	ARRANGED	09/26/16-12/16/16	25	403	Tonyuk
98H2	Var	ARRANGED	09/26/16-12/16/16	25	403	Meyers, David

**WLD 217 SPECIAL PROJECTS**

Develops skill in print reading, project planning, layout, distortion control, and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or as assigned.

Prerequisite: Advanced standing with Instructor's permission.

Instructor permission required.

Additional Fee: \$105.00

98AJ	Var	ARRANGED	09/26/16-12/16/16	25	403	Agostino
98BJ	Var	ARRANGED	09/26/16-12/16/16	25	403	Tonyuk
98J2	Var	ARRANGED	09/26/16-12/16/16	25	403	Meyers, David

**WLD 219 SPECIAL PROJECTS II**

Develops additional skills in print reading, project planning, layout, distortion control, and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or assigned.

**PREREQUISITES**

Advanced standing with instructor's permission.

Additional Fee: \$105.00

98AK	Var	ARR	DAILY	09/26/16-12/16/16	25	403	Agostino
98BK	Var	ARR	DAILY	09/26/16-12/16/16	25	403	Tonyuk
98K2	Var	ARR	DAILY	09/26/16-12/16/16	25	403	Meyers, David

**WLD 223 GTAW PIPE**

Develops welding techniques required to make sound GTAW welds on steel plate and pipe in the 2G, 3G, 4G, & 5G positions.

**PREREQUISITES**

Successful completion of WLD 142 or instructor permission.

Additional Fee: \$105.00

98AL	7 Cr	12:00PM-5:00PM	DAILY	09/26/16-12/16/16	25	403	Agostino
98BL	7 Cr	5:00PM-10:00PM	DAILY	09/26/16-12/16/16	25	403	Tonyuk
98L2	7 Cr	7:00AM-12:00PM	DAILY	09/26/16-12/16/16	25	403	Meyers, David

**WLD 225 SMAW PIPE WELDING**

Develop welding techniques required to make sound SMAW welds using E6010 and E7018 electrodes on steel pipe in the 2G & 5G positions.

**PREREQUISITES**

Successful completion of WLD 142 or instructor permission.

Additional Fee: \$105.00

98AM	7 Cr	12:00PM-5:00PM	DAILY	09/26/16-12/16/16	25 403	Agostino
98BM	7 Cr	5:00PM-10:00PM	DAILY	09/26/16-12/16/16	25 403	Tonyuk
98M2	7 Cr	7:00AM-12:00PM	DAILY	09/26/16-12/16/16	25 403	Meyers, David

**WLD 227      ADVANCED PIPE**

Develops welding techniques required to make sound welds on pipe in a variety of joints and positions.

**PREREQUISITES**

Successful completion of WLD 142 or instructor permission.

Additional Fee: \$105.00

98AN	7 Cr	12:00PM-5:00PM	DAILY	09/26/16-12/16/16	25 403	Agostino
98BN	7 Cr	5:00PM-10:00PM	DAILY	09/26/16-12/16/16	25 403	Tonyuk
98N2	7 Cr	7:00AM-12:00PM	DAILY	09/26/16-12/16/16	25 403	Meyers, David

**WLD 229      METAL-FORMING**

Develops techniques, tools, and equipment necessary to form metal into a variant of shapes.

**PREREQUISITES**

Successful completion of WLD 157 Metallurgy or instructor permission.

Additional Fee: \$105.00

98AP	7 Cr	12:00PM-5:00PM	DAILY	09/26/16-12/16/16	25 403	Agostino
98BP	7 Cr	5:00PM-10:00PM	DAILY	09/26/16-12/16/16	25 403	Meyers, David
98P2	7 Cr	7:00AM-12:00PM	DAILY	09/26/16-12/16/16	25 403	Meyers, David

**WLD 233      LAYOUT AND FABRICATION**

Covers Layout and fabrication techniques required for building production welding projects. Prerequisites

WLD 210 and/or instructor permission

Additional Fee: \$105.00

98AC	7 Cr	12:00PM-5:00PM	DAILY	09/26/16-12/16/16	25 403	Agostino
98BC	7 Cr	5:00PM-10:00PM	DAILY	09/26/16-12/16/16	25 403	Tonyuk
98C2	7 Cr	7:00AM-12:00PM	DAILY	09/26/16-12/16/16	25 403	Meyers, David

**WLD 235      WABO TEST PREP**

Covers welding techniques required to pass a 3G,4G, 5G and 6G weld test using a variety of welding processes

Prerequisites

WLD 117, WLD 123, WLD 152, WLD 168, WLD 172, WLD 210 or instructor permission Additional Fee:

\$105.00

98AB	7 Cr	12:00PM-5:00PM	DAILY	09/26/16-12/16/16	25 403	Agostino
98B2	7 Cr	7:00AM-12:00PM	F	09/26/16-12/16/16	25 403	Meyers, David
98BA	7 Cr	5:00PM-10:00PM	F	09/26/16-12/16/16	25 403	Tonyuk

**WLD 238      FCAW II**

Covers welding techniques in all positions for Flux Core Arc Welding without shielding gasses for a variety of joint designs

Prerequisites:

WLD 152 and/or instructor permission. Additional Fee: \$105.00



98A2	7 Cr	7:00AM-12:00PM	DAILY	09/26/16-12/16/16	25 403	Meyers, David
98AA	7 Cr	12:00PM-5:00PM	DAILY	09/26/16-12/16/16	25 403	Agostino
98BB	7 Cr	5:00PM-10:00PM	F	09/26/16-12/16/16	25 403	Tonyuk